

Minutes of the 296th meeting of the State Level Expert Appraisal Committee held on 29/06/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 296th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 29th June, 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

1. *Shri T. P. Singh, Chairman, SEAC.*
2. *Shri V. C. Soni, Vice Chairman, SEAC.*
3. *Shri R. J. Shah, Member, SEAC.*
4. *Dr. V. K. Jain, Member, SEAC.*
5. *Shri V.N. Patel, Member, SEAC.*
6. *Shri Natrajan Pratap, Member, SEAC*

The agenda of TOR/Scoping/Category 8 (a) cases, Appraisal & TOR amendment cases was taken up. Sixteen (16) cases of TOR/Scoping/Category 8 (a), One (1) case of ToR amendment and eight (8) cases of Appraisal was taken up. The applicants made presentations on the activities to be carried out along with other details furnished in the Form-1 / Form-1A, EIA report and other reports.

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|---|--|---|--------------------------------|
| 1. | Apple Luxuria | F.P.No.8 & 13, B.No.88 & 93, T.P.S.No.27, Utran, Mota Varachha, Surat. | Screening /scoping. |
| During the meeting, the project proponent along with their expert / consultant attended the meeting but they were not fully prepared for presenting all the project details satisfactorily before the committee and hence it was decided to consider the project for appraisal in one of the upcoming meetings of SEAC. | | | |
| 2. | New Baroda Prestige | T.P.S.No.3 (Karanj), R.S.No.27/ (p-1,2,3,4), O.P.No.19, F.P.No.72, Village: Karanj, Ta: Choryasi Dist: Surat. | Screening/scoping & appraisal. |
| Details of the project as presented before the committee is tabulated below: | | | |
| Sr. No. | Particulars | Details | |
| 1. | Proposal is for | New Project [SIA/GJ/NCP/53948/2016] | |
| 2. | Type of Project | Residential | |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8(a) | |
| 4. | Name of the project | New Baroda Prestige | |
| 5. | Name of Developer | Atyanta Developers | |
| 6. | Estimated Project Cost (Rs. In Crores) | Rs. 120 Crore | |

| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
|------------------------------------|---|---|--|-------------|----------|----------------------------|-----------|-----------|-----------------------------------|----------|----------|------------------------------------|----------|---------|--------------------------|----|-------|
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²): 32,487.0 • FSI area (m²): 72,560.64 • Total BUA (m²) : 1,11,500.10 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>72,608.36</td> <td>72,560.64</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>9,258.71</td> <td>7,012.88</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>3,248.70</td> <td>3,514.0</td> </tr> <tr> <td>Max. building height (m)</td> <td>--</td> <td>39.65</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 72,608.36 | 72,560.64 | Ground Coverage (m ²) | 9,258.71 | 7,012.88 | Common Plot Area (m ²) | 3,248.70 | 3,514.0 | Max. building height (m) | -- | 39.65 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 72,608.36 | 72,560.64 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | 9,258.71 | 7,012.88 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 3,248.70 | 3,514.0 | | | | | | | | | | | | | | | |
| Max. building height (m) | -- | 39.65 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings: 12 • No. of Blocks: 12 • Scope of buildings/blocks: Basement +hollow plinth + 12 floors. • No. & size of Residential Units: 768 flats. • No. & type of Commercial Units: 891 Textile Houses • Details of amenities if any: -- | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | <p>Expected shop users: 3840</p> <p>Expected visitors: 500</p> | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> • Water requirement (KL/day): 14.50 • Source of water: Borewell water • Waste water generation quantity (KL/day): 2.16 • Mode of disposal: Soak pit • Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment. | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Total Water requirement (KL/day): 540 • Fresh water requirement (KL/day): 370 • Source of water: Water supply from S.M.C • Waste water generation quantity (KL/day): 481 • Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purpose within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SMC. • In case of STP provision, capacity of STP: 500 KL/day • STP Technology: Anaerobic followed by high oxidation based treatment. • Purposes for treated sewage utilization: Treated sewage will be utilized for gardening and flushing • Quantity of treated water to be reused: 1. Gardening (KL/day): 14.0 2. Flushing (KL/day): 156.0 • Provision of dual plumbing system (Yes/No): Yes • Quantity and type (treated/untreated) of sewage to be discharged: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be reused for gardening & flushing purpose within premises and only remaining quantity of treated sewage will be discharged into the underground drainage line of SMC. • Mode of disposal: As above. | | | | | | | | | | | | | | | |

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|-----|--|---|---|---|--|
| 13. | Status of water supply and drainage line | Applied for connection of water supply and drainage connection in S.M.C. and the facilities will be available to the project at the time of getting B.U permission. | | | |
| 14. | Solid waste Management | Construction Phase: | | | |
| | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | |
| | | Top Soil | 175.7 | 175.7 | Reuse for developing garden area |
| | | Other excavated earth | 59,438.58 | 7,799.36 m ³ will be reused for back filling. | Disposal to other project site in consultation with SMC |
| | | Construction debris | 1171 | 558 m ³ will be reused as a filler up to plinth level. | Remaining quantity will be reused for outer road development |
| | | Steel scrap | 45 | -- | Sold to local scrap vendors |
| | | Discarded packing materials | 28 | -- | Sold to local vendors |
| | | Operation Phase: | | | |
| | | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse |
| | | Dry waste | 1,382.40 | Blue colour bucket | Through door to door waste collection system of SMC |
| | | Wet waste | 921.60 | Green colour bucket | Through door to door waste collection system of SMC |
| | | STP Sludge | 10 | On SDB | Reused in gardening as manure within project premises |
| | | <ul style="list-style-type: none"> • Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste. • Capacity and no. of community bins to be placed within premises: 2.0 m³ for the building • Landfill site where waste will be ultimately disposed by local authority: Khajod Landfill Site of S.M.C | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 10,884.0 m² • Parking area requirement for residential units as per GDCR: 10,884.0 m² • Total number of CPS requirement for the project as per NBC : 768 • Number of CPS requirement for residential units as per NBC: 768 • Total Parking area provided (m²) & No. of CPS: 32,557.0m² & 1150 CPS | | | |

| | | <ul style="list-style-type: none"> • Parking area provided in basement (m²) & No. of CPS: 19,301.0 m² & 603 CPS • Parking area provided in hollow plinth (m²) & No. of CPS: 3,860.0 & 138 CPS • Parking area provided as open surface (m²) & No. of CPS: 9,396.0 m² & 409 CPS | | | | | | | | | | | | | | | | | | |
|-------------------|--|---|------------------|------------------------|---|------------------|------------------------|---|-------------------|-----------|--------|----|------|-------|---------|-----------|--------|----|------|-------|
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 24 m wide road • Number of Entry & Exit provided on approach road/s: 2 gates proposed. • Width of Entry & Exit provided on approach road/s: 7 m & 7.5 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m • Width of all internal roads: 7.5 m & 7 m. | | | | | | | | | | | | | | | | | | |
| 17. | Details of Green Building measures proposed. | Use of fly ash based material, flush tank instead of direct flushing in toilets, foam type aerated coke, rain water harvesting, use of LED lights for common areas like passages, garden & basement and the LED lights will run on solar energy, reflective/ white tiles in common areas, maximum use of natural light, provision of sewage treatment plant & reuse of treated sewage etc. | | | | | | | | | | | | | | | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply Maximum demand: 5000 KVA Connected load: Source: DGVCL • Energy saving measures: use of LED lights for common areas, solar lights for landscape lighting, reflective/ white tiles in common areas, maximum use of natural light etc. • DG Sets No. and capacity of the DG sets: 2 x 125 KVA Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity 55 L/h in each | | | | | | | | | | | | | | | | | | |
| 19. | Fire and Life Safety Measures | Fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system (in basements), manually operated electric fire alarm system, underground fire water storage tank (75 KL x 12 nos), terrace tanks of 10 KL x 12 nos., provision of pump: one electric & one diesel pump of capacity 1620 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm ² at terrace level etc. | | | | | | | | | | | | | | | | | | |
| 20. | Details on staircase | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Bldg. No.</th> <th>Floor No.</th> <th>Floor Area (m²)</th> <th>No. of Staircase</th> <th>Width of Staircase (m)</th> <th>Maximum Travel Distance up to the Staircase (m)</th> </tr> </thead> <tbody> <tr> <td>A, B,C,F, G,H,I,J</td> <td>B+H.P.+12</td> <td>522.81</td> <td>02</td> <td>1.52</td> <td>13.50</td> </tr> <tr> <td>D,E,K,L</td> <td>B+H.P.+12</td> <td>707.60</td> <td>02</td> <td>1.52</td> <td>15.48</td> </tr> </tbody> </table> | Bldg. No. | Floor No. | Floor Area (m ²) | No. of Staircase | Width of Staircase (m) | Maximum Travel Distance up to the Staircase (m) | A, B,C,F, G,H,I,J | B+H.P.+12 | 522.81 | 02 | 1.52 | 13.50 | D,E,K,L | B+H.P.+12 | 707.60 | 02 | 1.52 | 15.48 |
| Bldg. No. | Floor No. | Floor Area (m ²) | No. of Staircase | Width of Staircase (m) | Maximum Travel Distance up to the Staircase (m) | | | | | | | | | | | | | | | |
| A, B,C,F, G,H,I,J | B+H.P.+12 | 522.81 | 02 | 1.52 | 13.50 | | | | | | | | | | | | | | | |
| D,E,K,L | B+H.P.+12 | 707.60 | 02 | 1.52 | 15.48 | | | | | | | | | | | | | | | |

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| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • Level of the Ground water table: --- • No. & dimensions of RWH tank(s) : 17 no. of RWH tanks; size: 4m x 3m x 3m size of Bore: 350 mm dia. size of pipe: 150 mm dia. • No. and depth of percolations wells: 17 nos. of percolating wells • Details on Pre-treatment facilities: A de-silting chamber will be provided to de-silt and remove floating material through bar screen |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) : 723.0 • Area covered by shrubs and bushes (m²): -- • Lawn covered area (m²): 2,791.0 • Total Green Area (m²): 3,514.0 • Green Area % of plot area: 10.00 % • No. of trees and species to be planted: 121 trees of Gulmohar, Neem tree, Coconut palm, Asopalav, Bamboo etc. |
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Capital cost of Rs. 109.8 lacs and recurring cost of Rs. 5.20 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management, sewage treatment & reuse etc. |
| 24. | Proposed dust control measures. | Water sprinkling, covered shed for cement unloading activity, tarpaulin cover on excavated earth & construction material etc. |
| 25. | Use of Eco – friendly building materials. | Use of fly ash bricks & aerated blocks for water partition, paving blocks for parking areas & walk ways, Portland Pozzolona Cement for RCC structure, plaster & flooring etc. |
| 26. | Details on amenities to be provided to construction workers. | Drinking water & tap water, sanitation facilities, domestic waste water collection facility, lunch space, first aid box, free medicines, doctor service, PPEs etc. |

During the meeting, it was observed that the NOC from Airports Authority of India has been obtained for building height of 80.0 m above ground level. Further it was observed that from survey numbers of 27/p - 1 to 4, only land of S.No. 27/p-1 is in the name of applicant & his family members as per the village form no. 7 & 12 submitted by them, whereas village form no. 7 & 12 submitted by them for other survey numbers of 27/p-2 to 4 do not reflect the ownership of the land by the applicant / project proponent. It was observed that the project is coming up in close vicinity of the common Sewage Treatment Plant. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. Land possession documents showing the ownership of land by the applicant/ project proponent, list of partners / directors of the company, copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard and a copy of registered agreement made between the land owners & developers (if any).
2. Details like name, capacity etc. of the common Sewage Treatment Plant located in the close vicinity of the project site, distance of it from the project site, measures proposed to minimise the odour nuisance due to the close vicinity of the STP etc.

3. Detailed traffic study & traffic management plan considering the floating and fixed population including visitors as well as existing traffic density on adjacent road during peak hours, projected increase in traffic density in operation phase of the project, carrying capacity of the existing roads, its adequacy during operation phase of the project and the measures to avoid the traffic congestion in the interior as well as the exterior roads.
4. Layout plan showing location of the proposed onsite STP. Design details of the dual plumbing system to be provided for reusing treated sewage for flushing purpose within premises.

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| 3. | Shree Anand Heights by Shree Developers | R.S.No.05, O.P.No.7, F.P.No.7/2, D.T.P.S.No. 113 (Vastral), Vatva, Ahmedabad. | Screening / scoping. |
|----|---|---|----------------------|

Details of the project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details | | | | | | | | | | | | | | | |
|------------------------------------|---|---|--|-------------|----------|----------------------------|-----------|-----------|-----------------------------------|----------|----------|------------------------------------|--------|--------|--------------------------|----|----|
| 1. | Proposal is for | New Project [SIA/GJ/NCP/54002/2016] | | | | | | | | | | | | | | | |
| 2. | Type of Project | Residential & commercial project. | | | | | | | | | | | | | | | |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8(a) | | | | | | | | | | | | | | | |
| 4. | Name of the project | Shree Anand Height | | | | | | | | | | | | | | | |
| 5. | Name of Developer | Shree Developers | | | | | | | | | | | | | | | |
| 6. | Estimated Project Cost (Rs. In Crores) | 30 Crores | | | | | | | | | | | | | | | |
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No. | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²) : 6,469.0 • FSI area (m²): 17,375.59 • Total BUA (m²):26,930.65 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>17,466.30</td> <td>17,375.59</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>2,469.87</td> <td>2,469.87</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>517.52</td> <td>517.62</td> </tr> <tr> <td>Max. building height (m)</td> <td>27</td> <td>27</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 17,466.30 | 17,375.59 | Ground Coverage (m ²) | 2,469.87 | 2,469.87 | Common Plot Area (m ²) | 517.52 | 517.62 | Max. building height (m) | 27 | 27 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 17,466.30 | 17,375.59 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | 2,469.87 | 2,469.87 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 517.52 | 517.62 | | | | | | | | | | | | | | | |
| Max. building height (m) | 27 | 27 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings:5 • No. of Blocks:7 • Scope of buildings/blocks: 2 buildings – basement +ground floor (parking & shops) + 7 floors, 3 buildings – basement + hollow plinth + 7 floors. • No. & size of Residential Units: 414 • No. & type of Commercial Units: 23 • Details of amenities if any: NA | | | | | | | | | | | | | | | |

| 10. | No. of expected residents / users | 1372 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|--|------------------------------|---|--------------------------|----------|-----|-----|--|-----------------------|-------|-------|--|---------------------|-----|----|---|-------------|---|---|------------------|-----------------------------|---|---|------------------|---------------|------------------------------|--------------------------|--------------------------|-----------|----|------------|-----------------|-----------|-----|------------|-----------------------|
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> • Water requirement (KL/day):40.0 • Source of water: water tankers. • Waste water generation quantity (KL/day): 15.0 • Mode of disposal: Into septic tank & soak pit system. • Details of reuse of water, if any: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Fresh water requirement (KL/day): 260.0 • Source of water:- Water supply from Ahmedabad Municipal Corporation (AMC) • Waste water generation quantity (KL/day): 217.0 • Mode of disposal: Sewage will be discharged through AMC drainage system. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | The project site is covered under the T.P.Scheme of AMC and hence water supply & drainage connection of AMC will be available to the project during the operation phase. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>150</td> <td>150</td> <td>Will be reused for green belt development.</td> </tr> <tr> <td>Other excavated earth</td> <td>2,500</td> <td>1,200</td> <td>Will be reused for back filling, internal roads and other paved areas & remaining will be used for other projects in the vicinity.</td> </tr> <tr> <td>Construction debris</td> <td>100</td> <td>80</td> <td>Will be reused for back filling, internal roads development and remaining will be handed over to AMC.</td> </tr> <tr> <td>Steel scrap</td> <td>3</td> <td>0</td> <td>Sold to vendors.</td> </tr> <tr> <td>Discarded packing materials</td> <td>2</td> <td>0</td> <td>Sold to vendors.</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste</td> <td>40</td> <td>White Bins</td> <td>Sold to vendors</td> </tr> <tr> <td>Wet waste</td> <td>700</td> <td>Green Bins</td> <td>AMC collection system</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: Yes • Capacity and no. of community bins to be placed within premises: 10 | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | Top Soil | 150 | 150 | Will be reused for green belt development. | Other excavated earth | 2,500 | 1,200 | Will be reused for back filling, internal roads and other paved areas & remaining will be used for other projects in the vicinity. | Construction debris | 100 | 80 | Will be reused for back filling, internal roads development and remaining will be handed over to AMC. | Steel scrap | 3 | 0 | Sold to vendors. | Discarded packing materials | 2 | 0 | Sold to vendors. | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste | 40 | White Bins | Sold to vendors | Wet waste | 700 | Green Bins | AMC collection system |
| | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 150 | 150 | Will be reused for green belt development. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other excavated earth | 2,500 | 1,200 | Will be reused for back filling, internal roads and other paved areas & remaining will be used for other projects in the vicinity. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction debris | 100 | 80 | Will be reused for back filling, internal roads development and remaining will be handed over to AMC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 3 | 0 | Sold to vendors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 2 | 0 | Sold to vendors. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste | 40 | White Bins | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste | 700 | Green Bins | AMC collection system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-----|--|--|------------|------------------|------------------------|---------------------|
| | | <p>nos. of community bins of 15 kg capacity will be placed in common area.</p> <ul style="list-style-type: none"> Landfill site where waste will be ultimately disposed by local authority: Nearby MSW disposal / dumping site of AMC. | | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> Total parking area requirement for the project as per GDCR: 2,105.53 m². Parking area requirement for residential units as per GDCR: 1,856.53 m². Parking area requirement for commercial units as per GDCR: 249.0 m². Total number of CPS requirement for the project as per NBC : 227 Number of CPS requirement for residential units as per NBC: 207 Number of CPS requirement for commercial units as per NBC: 20 Total Parking area provided (m²) & No. of CPS: 6,446.29 m² and 230 CPS. Parking area provided in basement (m²) & No. of CPS: 3,017.53 m² and 96 CPS Parking area provided in hollow plinth (m²) & No. of CPS: 2,371.51 m², 86 CPS Parking area provided as open surface (m²) & No. of CPS: 1,057.25 m², 48 CPS | | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> Width of adjacent public roads: 15 m wide road on two sides. Number of Entry & Exit provided on approach road/s: Two separate gates will be provided. Width of Entry & Exit provided on approach road/s: 7.5 m Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 3 m Width of all internal roads: 7.5 m. | | | | |
| 17. | Details of Green Building measures proposed. | Solar water heater in each block, solar street lights, LED lighting for common area lighting, use of electrical appliances conforming with the Bureau of Energy Efficiency norms, rain water harvesting through ground water recharge through 2 nos. of percolation wells etc. | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> Power supply: Maximum demand: 800 KVA Connected load: 1000 KVA Source: Torrent Power Ltd., Energy saving measures: Solar water heater in each block, solar street lights, LED lighting for common area lighting, use of electrical appliances conforming with the Bureau of Energy Efficiency norms etc. D.G.set: not proposed. | | | | |
| 19. | Fire and Life Safety Measures | Underground fire water tank having capacity of 50 KL, hose reel at each floor, 4 nos. of fire water pumps, sprinkler system in basement, fire alarms etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area | No. of staircase | Width of the staircase | Travel distance (m) |
| | A,B | B+G+7 | 327.15 | 01 | 1.5 m | <30 |
| | C | B+H.P+7 | 260.32 | 01 | 1.5 m | <30 |

| | | | | | | | |
|-----|--|--|--------|----|-------|-----|--|
| | D+E | B+H.P.+7 | 677.93 | 02 | 1.5 m | <30 | |
| | F+G | B+H.P.+7 | 443.87 | 02 | 1.5 m | <30 | |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • Level of the Ground water table: --- • No. & dimensions of RWH tank(s) : 02 nos. 2 m x2 m x 3 m • No. and depth of percolations wells :02 Nos. • Details on Pre-treatment facilities :-- | | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) :517.62 • Area covered by shrubs and bushes (m²): • Lawn covered area (m²):270.0 • Total Green Area (m²): 787.62 • Green Area % of plot area:10.32 • No. of trees and species to be planted: 150 | | | | | |
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | -- | | | | | |
| 24. | Proposed dust control measures during the construction phase | Spraying of water, peripheral barricading , covered shed for cement loading area ,covering the excavated earth with tarpaulin sheet etc. | | | | | |
| 25. | Eco friendly building material usage details. | Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints. | | | | | |
| 26. | Basic amenities to be provided to the construction workers. | Sanitation facilities, doctor's service once in a week for construction workers, insurance for workers, education facilities for children of workers etc. | | | | | |

During the meeting, the project proponent was suggested to increase the parking area provision for the project. Further it was observed that as per the village form no. 7 submitted by them, the land of the project site is in the name of land owners and a copy of sale deed (Banakhat) made for selling of the land to the applicant has been submitted, but the sale deed is not registered. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.
2. Explore the possibility of increasing the parking area provision for the project. Revised details on increased parking provision with back up calculation.
3. Full size project plan showing building wise & floor wise built up area & FSI area table and plot area statement. Size of residential units to come up in the project along with the supporting typical floor plans.

4. Source of water supply & drainage connection during the operation phase of the project along with the supporting documents.
5. Registered copy of documents related to land possession showing ownership of the land by the project proponent.

| | | | |
|----|---|---|----------------------------------|
| 4. | Mukhyamantri Gruh Yojana (Low Income Group scheme.) | T.P. No. 1, F.P. No. 145, Village: Harni, Taluka & District: Vadodara | Screening / scoping & appraisal. |
|----|---|---|----------------------------------|

Details of the project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details | | | | | | | | | | | | | | | |
|------------------------------------|---|---|--|-------------|----------|----------------------------|-----------|-----------|-----------------------------------|-----|----------|------------------------------------|--------|--------|--------------------------|----|----|
| 1. | Proposal is for | New Project [SIA/GJ/NCP/53999/2016] | | | | | | | | | | | | | | | |
| 2. | Type of Project | Residential & commercial project. | | | | | | | | | | | | | | | |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) | | | | | | | | | | | | | | | |
| 4. | Name of the Project | "Mukhyamantri Gruh Yojana Lower Income Group (LIG) Scheme" | | | | | | | | | | | | | | | |
| 5. | Name of Project Proponent | M/s. Rajkamal Builders Infrastructure Pvt. Ltd. | | | | | | | | | | | | | | | |
| 6. | Estimated Project Cost (Rs. In Crores) | 53 Crore | | | | | | | | | | | | | | | |
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No construction work has been initiated at site. | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²): 11,130.0 • FSI area (m²): 30,260.45 • Total BUA (m²): 35,978.72 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>33,291.39</td> <td>30,260.45</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>---</td> <td>5,152.61</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>890.40</td> <td>940.37</td> </tr> <tr> <td>Max. Building Height (m)</td> <td>25</td> <td>24</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 33,291.39 | 30,260.45 | Ground Coverage (m ²) | --- | 5,152.61 | Common Plot Area (m ²) | 890.40 | 940.37 | Max. Building Height (m) | 25 | 24 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 33,291.39 | 30,260.45 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | --- | 5,152.61 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 890.40 | 940.37 | | | | | | | | | | | | | | | |
| Max. Building Height (m) | 25 | 24 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings :12 • No. of Blocks :12 • Scope of Buildings/Blocks: Ground floor (parking & shops) + 7 floors. • No. & size of Residential Units: 462 Flats • No. & Type of Commercial Units:- 31 Shops • Details of Amenities if any:- None | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | Fixed population considered for the project :- 1,428 Persons Floating population considered for the project: 1,020 Persons/day | | | | | | | | | | | | | | | |

| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> • Water requirement (KL/day):- 20 • Source of water:- Local water tanker suppliers • Waste water generation quantity (KL/day):- 4.0 • Mode of disposal:- Septic tank / Soak pit system • Details of reuse of water, if any:- None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|------------|-----------------------|------------------------|----------|---------------------|----------------------|---|-----------------------|-----------------------|-----------------------|--|---------------------|--------------------|--------------------|---|-------------|------|----|-----------------------------|-----------------------------------|-------------|----|----------------------------------|---------------|------------------------------|--------------------------|--------------------------|-----------|--------------|--|---|-----------|
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Fresh water requirement (KL/day):- 365.0 • Source of water:- Water supply from Vadodara Municipal Corporation (VMC) • Waste water generation quantity (KL/day): 282.0 • Mode of disposal:- Waste water will be discharged through drainage system of Vadodara Municipal Corporation (VMC). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | Water supply & drainage connection of Vadodara Municipal Corporation (VMC) is available at the project site. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid Waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation</th> <th>Quantity to be reused</th> <th>Mode of Disposal/Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>3,090m³</td> <td>3,090 m³</td> <td>Development of greenbelt & levelling of low lying areas</td> </tr> <tr> <td>Other Excavated Earth</td> <td>12,360 m³</td> <td>12,360 m³</td> <td>Levelling of low lying areas and development of green belt area at proposed site itself.</td> </tr> <tr> <td>Construction Debris</td> <td>600 m³</td> <td>600 m³</td> <td>Levelling roads, pavements, plot filling, plinth filling etc.</td> </tr> <tr> <td>Steel Scrap</td> <td>3 MT</td> <td>--</td> <td>To be sold to scarp dealer.</td> </tr> <tr> <td>Discarded packing Materials/ Bags</td> <td>50,000 Bags</td> <td>--</td> <td>To be sold to authorized vendor.</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste</td> <td rowspan="2">1,179 kg/day</td> <td rowspan="2">62 Nos. of bins of 80 litre capacity will be provided for collection of waste.</td> <td rowspan="2">Will be regularly collected by agency appointed by VMC for final disposal</td> </tr> <tr> <td>Wet waste</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: Not to be done • Capacity and no. of community bins to be placed within premises: Total | | Generation | Quantity to be reused | Mode of Disposal/Reuse | Top Soil | 3,090m ³ | 3,090 m ³ | Development of greenbelt & levelling of low lying areas | Other Excavated Earth | 12,360 m ³ | 12,360 m ³ | Levelling of low lying areas and development of green belt area at proposed site itself. | Construction Debris | 600 m ³ | 600 m ³ | Levelling roads, pavements, plot filling, plinth filling etc. | Steel Scrap | 3 MT | -- | To be sold to scarp dealer. | Discarded packing Materials/ Bags | 50,000 Bags | -- | To be sold to authorized vendor. | Type of waste | Generation Quantity (kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste | 1,179 kg/day | 62 Nos. of bins of 80 litre capacity will be provided for collection of waste. | Will be regularly collected by agency appointed by VMC for final disposal | Wet waste |
| | Generation | Quantity to be reused | Mode of Disposal/Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 3,090m ³ | 3,090 m ³ | Development of greenbelt & levelling of low lying areas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other Excavated Earth | 12,360 m ³ | 12,360 m ³ | Levelling of low lying areas and development of green belt area at proposed site itself. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Debris | 600 m ³ | 600 m ³ | Levelling roads, pavements, plot filling, plinth filling etc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel Scrap | 3 MT | -- | To be sold to scarp dealer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing Materials/ Bags | 50,000 Bags | -- | To be sold to authorized vendor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste | 1,179 kg/day | 62 Nos. of bins of 80 litre capacity will be provided for collection of waste. | Will be regularly collected by agency appointed by VMC for final disposal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-----|--|--|
| | | <p>62 Nos. – each of 80 litre capacity</p> <ul style="list-style-type: none"> • Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW collection point of VMC. |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 3,545.48 m² • Parking area requirement for residential units as per GDCR: 2,896.19 m² • Parking area requirement for Commercial units as per GDCR: 649.29 m² • Total number of CPS requirement for the project as per NBC : 944 Two Wheelers + 26 Four Wheelers • Number of CPS requirement for residential units as per NBC: 924 Two Wheelers + 20 Four Wheelers • Number of CPS requirement for commercial units as per NBC: 20 Two Wheelers + 6 Four Wheelers • Total Parking area provided (m²) & No. of ECS: 4,444.35 m² & 1,411 Two Wheelers + 38 Four wheelers • Parking area provided in hollow plinth (m²) & No. of ECS: 3,390.72 m² & 1,233 Two Wheelers + 11 Four wheelers • Parking area provided as open surface (m²) & No. of ECS: 583.53 m² & 178 Two Wheelers + 6 Four wheelers • Parking area provided (at any other place-specify) (m²) & No. of ECS: Common Plot – 470.10 m² & 21 Four wheelers |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 12 m wide T.P.S. road on two sides • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 m & 4 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): At least 3 m • Width of all internal roads: 7.5 m |
| 17. | Details of Green Building measures proposed. | <p>Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash, PVC electrical boards, rainwater harvesting by recharging the ground water table with provision for 3 percolation wells, maximize the use of light colours in the building envelope - to reduce heat absorption and associated cooling requirements, solar lights in common sunlit areas, maximum use of LED lights, use of variable frequency drive motors etc.</p> |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: During Construction: 2 MW During Operation: 2 MW Source: M/s. Madhya Gujarat Vij Company Ltd. (MGVCL) • Energy saving by Non-conventional Methods: Use of solar lighting in |

| | | | | | | |
|-----|-------------------------------|--|------------------|--|------------------------|---------------------|
| | | <p>common sunlit areas</p> <ul style="list-style-type: none"> • Energy saving measures: Use of LED lights in each block, use of variable frequency drives motors to optimize power consumption, maximize the use of light and silent colours in the building envelope so that UV absorption is reduced and associated cooling requirements are minimized. • D.G. Sets: Not proposed | | | | |
| 19. | Fire and Life Safety Measures | <ul style="list-style-type: none"> • Nearest fire stations are Dandia Bazar & Chhani Jakatnaka. Distance from the project site: about 5 km. Time required for the fire tender to reach at the project site is 15-20 minutes. • During the construction phase: Fire extinguishers in common areas, personal protective equipments like earplugs, dust masks, safety shoes, helmets, hand gloves, etc will be provided to all workers, all workers will be trained to use welding shields and follow safer practice, provision of first aid facilities & related training to the construction workers, maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition, "H" frame scaffolds & ladders made of mild steel, completely concealed copper wiring, all electrical fittings / equipments used will meet the relevant IS standards etc. • During the operation phase: Fire extinguishers of CO2 type (4.5 kg) and DCP type (5 kg) will be provided on each floor, hose reels, wet risers, manually operated electric fire alarm system on each floor with sounders capable of being heard all throughout the building, underground static water tank of 25 KL capacity, overhead tank of 20 KL for each building etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | No. of staircase | Floor area of each floor (m ²) | Width of the staircase | Travel distance (m) |
| | A+B, C+D, F+G, K+L | G+7 | 2 | 588 | 1.5 m | Max. 20 m |
| | E | G+7 | 1 | 98 | | |
| | H+I | G+7 | 2 | 490 | | |
| | J | G+7 | 1 | 294 | | |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • No. and depth of percolations wells : 3 Nos., 37 m depth • Details on Pre-treatment facilities: Screen pit before the percolation wells. | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) : 746.0 • Area covered by shrubs and bushes (m²): -- • Lawn covered area (m²): 166.0 • Total Green Area (m²): 912.0 • Green Area % of plot area: 9 % • No. of trees and species to be planted: 125 trees of Gulmohar, Jamun, Badam, Kadam, Sevan, Chickoo etc. will be preferred. | | | | |

| | | |
|-----|--|---|
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | ----- |
| 24. | Dust control measures | Temporary windshield barriers, regular water sprinkling, tarpaulin sheet cover on the material during the transportation, maximum use of Ready Mix Concrete (RMC), uniform piling of sand and proper storage to avoid dusting. |
| 25. | Eco friendly building materials | Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash. |
| 26. | Facilities to be provided to the construction workers | Sanitation facilities, drinking water, municipal solid waste collection facility, first aid facilities, spraying of anti mosquito fumes etc. |

During the meeting, the project proponent was suggested to increase the parking area provision for the project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Project plans showing building wise & floor wise built up area, FSI area table & plot area statement.
2. Explore the possibility of increasing the parking area provision for the project and revised details on the parking area provision for the project based on the actual parking requirement as per NBC norms.
3. Land possession documents showing ownership of the land by Vadodara Municipal Corporation. Copy of work order given to the developer M/s Rajkamal Builders Infrastructure Pvt. Ltd. for development of the proposed project.
4. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.

| | | | |
|----|------------|--|---------------------|
| 5. | The Marina | Block No:644, F.P.No:70,T.P.S.No:5,O.P.No:70, Vill: Bill-Bhyali-Samyala, Dist: Vadodara. | Screening / scoping |
|----|------------|--|---------------------|

Details of the project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details |
|---------|---------------------------------------|---------------------------------|
| 1. | Proposal is for | New Project |
| 2. | Type of Project | Residential |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8(a) |
| 4. | Name of the project | "The Marina" |
| 5. | Name of Developer | Mr. Chhitubhai Becharbhai Patel |

| 6. | Estimated Project Cost (Rs. In Crores) | Rs. 75 Crore | | | | | | | | | | | | | | | |
|------------------------------------|---|---|--|-------------|----------|----------------------------|----------|-----------|-----------------------------------|----------|----------|------------------------------------|-------|-------|--------------------------|----|-------|
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> Land / Plot Area (m²): 9,592.0 FSI area (m²): 37,350.58 Total BUA (m²): 50,942.97 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>38,368.0</td> <td>37,350.58</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>2,589.84</td> <td>2,578.04</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>961.0</td> <td>961.0</td> </tr> <tr> <td>Max. building height (m)</td> <td>--</td> <td>77.95</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 38,368.0 | 37,350.58 | Ground Coverage (m ²) | 2,589.84 | 2,578.04 | Common Plot Area (m ²) | 961.0 | 961.0 | Max. building height (m) | -- | 77.95 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 38,368.0 | 37,350.58 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | 2,589.84 | 2,578.04 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 961.0 | 961.0 | | | | | | | | | | | | | | | |
| Max. building height (m) | -- | 77.95 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> No. of Buildings: 3 Nos. No. of Blocks: 3 no.s Scope of buildings/blocks: 2 buildings – 2 level basement + hollow plinth + 22 floors. 1 building - 2 level basement + ground floor + 22 floors No. & size of Residential Units: 171 flats No. & type of Commercial Units: -- Details of amenities if any: -- | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | <p>Expected residents: 855</p> <p>Expected shop users: --</p> <p>Expected visitors: 400</p> | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> Water requirement (KL/day): 15.0 Source of water: Borewell water Waste water generation quantity (KL/day): 2.70 Mode of disposal: Soak pit Details of reuse of water, if any: W/W generated from washing of equipment will be reused for curing after necessary treatment. | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> Total water requirement (KL/day): 125.5 Fresh water requirement (KL/day): 73.0 Source of water: Borewell water Waste water generation quantity (KL/day): 97.0 Mode of disposal: Sewage to be generated will be segregated into black & grey sewage. Grey sewage will be treated in the proposed onsite STP for grey sewage and treated grey sewage will be reused for gardening & flushing purpose within premises. Only remaining quantity of treated grey sewage along with the untreated black sewage will be discharged into the drainage line of VUDA/VMC. In case of STP provision, capacity of STP:100.0 KL/day STP Technology: Grey Sewage Treatment Plant. Purposes for treated sewage utilization: Treated sewage will be utilized for gardening and flushing. | | | | | | | | | | | | | | | |

| | | <ul style="list-style-type: none"> Quantity of treated sewage to be reused (KL/day): 1. Gardening (KL/day): 48.5, 2. Flushing (KL/day): 4.0 Provision of dual plumbing system (Yes/No): Yes Quantity and type (treated/untreated) of water to be discharged: Nil Mode of disposal: Sewage to be generated will be segregated into black & grey sewage. Grey sewage will be treated in the proposed onsite STP for grey sewage and treated grey sewage will be reused for gardening & flushing purpose within premises. Only remaining quantity of treated grey sewage along with the untreated black sewage will be discharged into the drainage line of VUDA/VMC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|--|------------------------------|---|--------------------------|----------|--------|--------|----------------------------------|-----------------------|-----------|----------|--|---------------------|-----|-----|---|-------------|----|----|-----------------------------|-----------------------------|----|----|-----------------------|---------------|------------------------------|--------------------------|--------------------------|-----------|--------|--------------------|---|-----------|-------|---------------------|---|------------|-------|--------|--|
| 13. | Status of water supply and drainage line | Applied for water supply and drainage connection. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>479.60</td> <td>479.60</td> <td>Reuse for developing garden area</td> </tr> <tr> <td>Other excavated earth</td> <td>26,592.03</td> <td>5,060.74</td> <td>Will be reused as back filling material of levelling the site and remaining will be send to other sites in consultation with VMC/ VUDA</td> </tr> <tr> <td>Construction debris</td> <td>535</td> <td>255</td> <td>Reused as a filler up to plinth level and balanced will be reused in outer road development</td> </tr> <tr> <td>Steel scrap</td> <td>20</td> <td>--</td> <td>Sold to local scrap vendors</td> </tr> <tr> <td>Discarded packing materials</td> <td>13</td> <td>--</td> <td>Sold to local vendors</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste</td> <td>307.80</td> <td>Blue colour bucket</td> <td>Will be sold to vendors / scrap dealer.</td> </tr> <tr> <td>Wet waste</td> <td>205.2</td> <td>Green colour bucket</td> <td>Will be converted into manure through composting.</td> </tr> <tr> <td>STP Sludge</td> <td>10.00</td> <td>In SDB</td> <td>Will be reused as manure for gardening within project premises</td> </tr> </tbody> </table> | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | Top Soil | 479.60 | 479.60 | Reuse for developing garden area | Other excavated earth | 26,592.03 | 5,060.74 | Will be reused as back filling material of levelling the site and remaining will be send to other sites in consultation with VMC/ VUDA | Construction debris | 535 | 255 | Reused as a filler up to plinth level and balanced will be reused in outer road development | Steel scrap | 20 | -- | Sold to local scrap vendors | Discarded packing materials | 13 | -- | Sold to local vendors | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste | 307.80 | Blue colour bucket | Will be sold to vendors / scrap dealer. | Wet waste | 205.2 | Green colour bucket | Will be converted into manure through composting. | STP Sludge | 10.00 | In SDB | Will be reused as manure for gardening within project premises |
| | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 479.60 | 479.60 | Reuse for developing garden area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other excavated earth | 26,592.03 | 5,060.74 | Will be reused as back filling material of levelling the site and remaining will be send to other sites in consultation with VMC/ VUDA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction debris | 535 | 255 | Reused as a filler up to plinth level and balanced will be reused in outer road development | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 20 | -- | Sold to local scrap vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 13 | -- | Sold to local vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste | 307.80 | Blue colour bucket | Will be sold to vendors / scrap dealer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste | 205.2 | Green colour bucket | Will be converted into manure through composting. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STP Sludge | 10.00 | In SDB | Will be reused as manure for gardening within project premises | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-----|--|--|
| | | <ul style="list-style-type: none"> • Details of segregation if to be done: Separate bins will be provided to collect dry and wet waste. • Capacity and no. of community bins to be placed within premises: Separate bins having storage capacity 1.0 m³ • Landfill site where waste will be ultimately disposed by local authority: MSW will be collected in the bins to be provided within premises and will be transferred at the identified site of VMC/VUDA. |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 5,754.91m² • Parking area requirement for residential units as per GDCR: 5,754.91m² • Total number of CPS requirement for the project as per NBC : 171 • Number of CPS requirement for residential units as per NBC: 171 • Total Parking area provided (m²) & No. of ECS: 11,035.50 m² & 380 ECS • Parking area provided in basement (m²) & No. of ECS: 7,611.00 m² & 238 ECS • Parking area provided in hollow plinth (m²) & No. of ECS: 848.00 m² & 30 ECS • Parking area provided as open surface (m²) & No. of ECS: 2,576.50 m² & 112 ECS |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 40 m, 18 m & 12 m wide roads. • Number of Entry & Exit provided on approach road/s: Three gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.50 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m • Width of all internal roads: 7.50 m |
| 17. | Details of Green Building measures proposed. | Use of fly ash based material, provision of STP, provision of flush tank instead of direct flushing in toilet, provision of foam type aerated cock for water usage etc. |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply Maximum demand: 3000 KVA Connected load: • Source: M.G.V.C.L • Energy saving measures: Use of LED light in common areas, solar lights for landscape areas, maximum use of natural lighting, reflective / white tiles on terrace floor etc. • D.G.stes: No. and capacity of the DG sets: 2 x 125 KVA Fuel & its quantity: Low Sulphur High speed Diesel (HSD) & quantity 55 L/h in each |

| 19. | Fire and Life Safety Measures | <p>During the operation phase: fire extinguishers, hose reel, wet riser, yard hydrant, automatic sprinkler system in basement, manually operated electric fire alarm system, underground fire water storage tank of 100 KL, terrace tank of 25 KL on each building, refuge cum assembly area at 6th, 10th & 18th floor of all the buildings, provision of pump i.e two electric & one Diesel pump of capacity 2280 L/min. & one electric pump of capacity 180 L/min. having pressure 3.5 kg/cm² at terrace level etc.</p> <p>Nearest fire station located at Vadiwadi is at a distance of approximately 6 km. Time required for the fire tender to reach at the project site is 15 - 20 minutes.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|--|------------------|------------------------------|--|------------------------|--|---|-------------|--------|----|------|-------|---|----------|--------|----|------|-------|---|------------|--------|----|------|-------|--|
| 20. | Details on staircase | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Bldg. No. | Floor No. | Floor Area (m ²) | No. of Staircase | Width of Staircase (m) | Maximum Travel Distance up to the Staircase (< 30 m) | | | | | | | | | | | | | | | | | | | | | |
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| B | 2B+G+ 22 | 402.16 | 01 | 2.00 | 20.51 | | | | | | | | | | | | | | | | | | | | | |
| C | 2 B+H.P+22 | 558.81 | 02 | 2.00 | 20.82 | | | | | | | | | | | | | | | | | | | | | |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> Level of the Ground water table: No. & dimensions of RWH tank(s): 05 no. of RWH tanks; size: 4 m x 3 m x 3 m size of Bore: 350 mm dia. size of pipe: 150 mm dia. No. and depth of percolations wells: 06 nos. of percolating wells. Details on Pre-treatment facilities: A de-silting chamber will be provided to de-silt and remove floating material through bar screen. | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> Tree covered area (m²) : 400.0 Area covered by shrubs and bushes (m²): -- Lawn covered area (m²): 561.0 Total Green Area (m²): 961.0 Green Area % of plot area: 10 % No. of trees and species to be planted: About 67 nos. of trees of local species like Asopalav, Neem tree, Coconut palm, Indian Champa etc. will be planted within premises. | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Capital cost of Rs. 89.95 lacs and recurring cost of Rs. 4.45 lacs has been allocated towards purposes like rain water harvesting & ground water recharge, greenbelt development, environment monitoring & management, waste management etc. | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. | Details on use of eco-friendly building materials | Fly ash bricks, aerated blocks, paving blocks, Portland Pozzolona Cement in concrete etc. | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. | Details on dust control measures | Regular water sprinkling, covered shed for cement unloading activity, tarpaulin sheet cover on excavated earth etc. | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. | Facilities to be provided to | Sanitation facilities, drinking water, tap water, domestic waste water disposal facility, first aid box, free medicines, doctor service, PPEs etc. | | | | | | | | | | | | | | | | | | | | | | | | |

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| | the construction workers. | |
| 27. | Documents related to land possession. | Village form no. 7 & 12 submitted by them shows that the agricultural land is in the name of applicant Mr. Chhitubhai Becharbhai Patel & his family members. |

They have submitted a copy of NOC obtained from Airports Authority of India for building height of 79.90 m above ground level. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. Status of availability of water supply & drainage connection to the proposed project and a copy of permission / letter of intent obtained from concerned competent authority for availability of water supply & drainage connection to the project.
2. Details & plans showing floor wise evacuation plan in case of emergency.
3. Copy of permission obtained from the concerned competent authority for the proposed FSI of the project.
4. Details of seismic zone of the project and design aspects required to be adhered to as per national standards for buildings to make it earthquake proof. Certificate from a structural engineer in this regard.
5. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Details on reduction of total energy requirement of such a high rise project due to the proposed energy conservation measures with back up calculation.
6. Copy of permission obtained for non agricultural use of the project site or a copy of documents showing the correspondences made in this regard with concerned competent authority.

| | | | |
|----|----------------|--|--------------------------------|
| 6. | Swagat Pelican | Survey no. 395/1,395/2 & 372/8/P, F.P.No.98, 99/1, 87, T.P.S.No.7, Sargasan, Gandhinagar | Screening/scoping & appraisal. |
|----|----------------|--|--------------------------------|

Details of the proposed project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details |
|---------|--|--|
| 1. | Proposal is for | New Project [SIA/GJ/NCP/54025/2016] |
| 2. | Type of Project | Residential & commercial project. |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) |
| 4. | Name of the Project | Swagat Pelican |
| 5. | Name of Project Proponent | Mr. Tarun S. Varma |
| 6. | Estimated Project Cost (Rs. In Crores) | 40 Crore |
| 7. | Whether construction work has been initiated | No construction work has been initiated at site. |

| | at site? If yes, details thereof | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|---|-------------|-----------------------|----------------------------|-----------|----------------------|-----------------------------------|---|----------|------------------------------------|--------|--------|--------------------------|----|-------|
| 8. | Project Details | <ul style="list-style-type: none"> Land / Plot Area (m²): 9,982.0 FSI area (m²): 22,399.0 Total BUA (m²): 37,019.0 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>22,459.39</td> <td>22,399.0</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>---</td> <td>2,623.86</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>998.20</td> <td>1541.0</td> </tr> <tr> <td>Max. Building Height (m)</td> <td>45</td> <td>35.44</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 22,459.39 | 22,399.0 | Ground Coverage (m ²) | --- | 2,623.86 | Common Plot Area (m ²) | 998.20 | 1541.0 | Max. Building Height (m) | 45 | 35.44 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 22,459.39 | 22,399.0 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | --- | 2,623.86 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 998.20 | 1541.0 | | | | | | | | | | | | | | | |
| Max. Building Height (m) | 45 | 35.44 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> No. of Buildings : 7 No. of Blocks : 7 Scope of Buildings/Blocks: 2 buildings – Basement + Ground floor (parking & shops) + 11 floors. 1 building – Basement + hollow plinth + 9 floors. 4 buildings – basement + ground floor (parking & shops) + 10 floors. No. & size of Residential Units: 276 Flats No. & Type of Commercial Units:- 16 Shops Details of Amenities if any:- None | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | <p>Fixed population considered for the project :- 1,428 Persons</p> <p>Floating population considered for the project: 1,020 Persons/day</p> | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> Water requirement (KL/day):- 18 Source of water:- Local water tanker suppliers Waste water generation quantity (KL/day):- 6.0 Mode of disposal:- Septic tank / Soak pit system Details of reuse of water, if any:- None | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> Fresh water requirement (KL/day):- 223.0 Source of water:- water supply from Gandhinagar Urban Development Authority (GUDA) Waste water generation quantity (KL/day): 168.0 Mode of disposal:- Waste water will be discharged through drainage system of Gandhinagar Urban Development Authority (GUDA). | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | Water supply & drainage connection of Gandhinagar Urban Development Authority (GUDA) will be available to the project during the operation phase of the project. | | | | | | | | | | | | | | | |
| 14. | Solid Waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation</th> <th>Quantity to be reused</th> <th>Mode of Disposal/Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>7,200 m³</td> <td>7,200 m³</td> <td>Development of greenbelt & levelling of low lying areas</td> </tr> </tbody> </table> | | Generation | Quantity to be reused | Mode of Disposal/Reuse | Top Soil | 7,200 m ³ | 7,200 m ³ | Development of greenbelt & levelling of low lying areas | | | | | | | |
| | Generation | Quantity to be reused | Mode of Disposal/Reuse | | | | | | | | | | | | | | |
| Top Soil | 7,200 m ³ | 7,200 m ³ | Development of greenbelt & levelling of low lying areas | | | | | | | | | | | | | | |

| | | | | | |
|-----|--|---|------------------------------|--|--|
| | | Other Excavated Earth | 28,800 m ³ | 28,800 m ³ | Levelling of low lying areas and development of green belt area at proposed site itself. |
| | | Construction Debris | 440m ³ | 440 m ³ | Levelling roads, pavements, plot filling, plinth filling etc. |
| | | Steel Scrap | 2 MT | -- | To be sold to scarp dealer. |
| | | Discarded packing Materials/ Bags | 1,00,000 Bags | -- | To be sold to authorized vendor. |
| | | Operation Phase: | | | |
| | | Type of waste | Generation Quantity (kg/day) | Mode of waste collection | Mode of Disposal / Reuse |
| | | Dry waste | 704 kg/day | 37 Nos. of bins of 80 litre capacity will be provided for collection of waste. | Will be regularly collected by GUDA for final disposal |
| | | Wet waste | | | |
| | | <ul style="list-style-type: none"> • Details of segregation if to be done: Not to be done • Capacity and no. of community bins to be placed within premises: Total 37 Nos. – each of 80 litre capacity • Landfill site where waste will be ultimately disposed by local authority: at the nearby MSW collection point of GUDA. | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total number of CPS requirement for the project as per NBC: 298 CPS • Number of CPS requirement for residential units as per NBC: 276 CPS • Number of CPS requirement for commercial units as per NBC: 22 CPS • Total parking area provided (m²) & No. of ECS: 9,380.0 m² & 310 CPS. • Parking area provided in basement (m²) & No. of ECS: 6,614.0 m² & 207 CPS. • Parking area provided in hollow plinth (m²) & No. of ECS: 2,195.0 m² & 78 CPS • Parking area provided as open surface (m²) & No. of ECS: 571.0 m² & 25 CPS. | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 24 m & 12 m wide T.P.S.roads • Number of Entry & Exit provided on approach road/s: Two gates will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 m & 9 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): At least 4.5 m • Width of all internal roads: 7.5 m & 9 m. | | | |
| 17. | Details of Green Building measures proposed. | Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash, , PVC electrical | | | |

| | | | | | | |
|-----|---|---|------------|------------------|------------------------|-----------------|
| | | boards, aluminium window frame & marble door frame instead of wood, rainwater harvesting by recharging the ground water table with provision for 3 percolation wells, maximize the use of light colours in the building envelope - to reduce heat absorption and associated cooling requirements etc. | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: During Construction: 50 kW During Operation: 1.7 MW Source: M/s. Uttar Gujarat Vij Company Ltd. (UGVCL) • Energy saving by Non-conventional Methods: Use of solar lighting in common sunlit areas • Energy saving measures: Use of LED lights in each block, use of variable frequency drives motors to optimize power consumption, the individual building block has been oriented so as to have maximum natural daylight as well as ventilation, use of building material having lower U-value and the insulating material having higher R-value to have optimum energy performance, maximize the use of light and silent colours in the building envelope so that UV absorption is reduced and associated cooling requirements are minimized. • D.G. Sets: No. and capacity of the DG sets: 150 KVA x 01 | | | | |
| 19. | Fire and Life Safety Measures | <ul style="list-style-type: none"> • Nearest fire station is Gandhinagar fire station approx. 6.2 km. Time required for the fire tender to reach at the project site is 15-20 minutes. • During the construction phase: Fire extinguishers in common areas, personal protective equipments like earplugs, dust masks, safety shoes, helmets, hand gloves, etc will be provided to all workers, all workers will be trained to use welding shields and follow safer practice, provision of first aid facilities & related training to the construction workers, maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition, "H" frame scaffolds & ladders made of mild steel, completely concealed copper wiring, all electrical fittings / equipments used will meet the relevant IS standards etc. • During the operation phase: Fire extinguishers of CO2 type (4.5 kg) and DCP type (5 kg) will be provided on each floor, hose reels, wet risers, yard hydrants, manually operated electric fire alarm system, automatic detection and alarm system, underground water tank of 100 KL capacity, automatic sprinkler system in basement, one electric and one diesel pump of capacity 2,850 litre per minute and one electric pump of capacity 180 litre per minute will be provided. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & No. of Buildings | No. of Floors | Floor Area | No. of Staircase | Width of the Staircase | Travel Distance |

| | | | | | | | |
|-----|--|---|----------------------|---|-----|--------|--|
| | A & B | B+G+11 | 400.1 m ² | 1 | 2 m | 19.5 m | |
| | C | B+ H.P.+ 9 | 282.2 m ² | 1 | 2 m | 16 m | |
| | D & G | B+G+10 | 282.2 m ² | 1 | 2 m | 16 m | |
| | E & F | B+G+10 | 258.2 m ² | 1 | 2 m | 17 m | |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> No. and depth of percolations wells : 3 Nos., 40 m depth Details on Pre-treatment facilities: Before recharging rain water, suitable arrangements of filtering (preferably sand filtration media) will be provided. Gratings at mouth of each drainpipe will be provided on terraces to trap leaves, debris and floating materials. Filter media will be cleaned before every monsoon season. First rain separator will be provided to flush off first rains. During rainy season, the whole system (roof catchment, pipes, screens, first flush, and filters) will be checked before and after each rain and preferably cleaned after every dry period exceeding a month. | | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> Tree covered area (m²) : 895.0 Area covered by shrubs and bushes (m²): -- Lawn covered area (m²): 1,623.0 Total Green Area (m²): 2,518.0 Green Area % of plot area: 25.2 % No. of trees and species to be planted: 125 trees of Gulmohar, Jamun, Badam, Kadam, Sevan, Chickoo etc. will be preferred. | | | | | |
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Total Rs. 12 Lacs has been allocated towards Environmental Management Plan specifically for purposes like rain water harvesting & ground water recharge, energy & water conservation, greenbelt development and domestic waste management etc. | | | | | |
| 24. | Dust control measures | Temporary windshield barriers, regular water sprinkling, tarpaulin sheet cover on the material during the transportation, maximum use of Ready Mix Concrete (RMC), uniform piling of sand and proper storage to avoid dusting. | | | | | |
| 25. | Eco friendly building materials | Maximum use of Ready Mix Concrete (RMC), fly ash paver blocks for pavements/walkways, most of the carpentry structures will be made up of processed engineering wood instead of wood, maximum use of Portland Pozzolona Cement (PPC) containing high amount of fly ash. | | | | | |
| 26. | Facilities to be provided to the construction workers | Sanitation facilities, drinking water, municipal solid waste collection facility etc. | | | | | |
| 27. | Documents related to land possession. | N.A orders for survey numbers 395/1 & 395/2 submitted by them shows that the land for residential & commercial use is in the name of applicant Mr. Tarun S. Varma. Submitted a copy of order from Collector & District Magistrate Office, Gandhinagar for payment of premium for N.A permission of S.No. 372/8(F.P.No.87) which is in the name of applicant Mr. Tarun S. Varma. | | | | | |

During the meeting, the project proponent was asked to plant trees on the boundaries of common plot also in addition to planting trees all along the boundary wall. They were also asked to make provision of solar

street lights & solar water heaters. After detailed discussion, it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

| | | | |
|----|---------------------|---|--------------------------------|
| 7. | Anand Sapphire - II | S.No. 136, F.P.No.112/1, TPS No:32, Gota, Ahmedabad | Screening/scoping & appraisal. |
|----|---------------------|---|--------------------------------|

Details of the proposed project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|-------------|----------|----------------------------|----------|--------|-----------------------------------|----|------|------------------------------------|-------|-----|--------------------------|----|----|
| 1. | Proposal is for | New Project [SIA/GJ/NCP/54055/2016] | | | | | | | | | | | | | | | |
| 2. | Type of Project | Residential Project | | | | | | | | | | | | | | | |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) | | | | | | | | | | | | | | | |
| 4. | Name of the project | Anand Sapphire - II | | | | | | | | | | | | | | | |
| 5. | Name of Developer | Babubhai Jesangbhai Desai | | | | | | | | | | | | | | | |
| 6. | Estimated Project Cost (Rs. In Crores) | 45 Crores | | | | | | | | | | | | | | | |
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²): 5,824.0 • FSI area (m²):15,720.0 • Total BUA (m²):30,695.22 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>15,724.8</td> <td>15,720</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>NA</td> <td>2019</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>582.4</td> <td>600</td> </tr> <tr> <td>Max. building height (m)</td> <td>70</td> <td>45</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 15,724.8 | 15,720 | Ground Coverage (m ²) | NA | 2019 | Common Plot Area (m ²) | 582.4 | 600 | Max. building height (m) | 70 | 45 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 15,724.8 | 15,720 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | NA | 2019 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 582.4 | 600 | | | | | | | | | | | | | | | |
| Max. building height (m) | 70 | 45 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings:3 • No. of Blocks:3 • Scope of buildings/blocks: 2 level basement + hollow plinth + 14 floors. • No.& size of Residential Units: Total 84 flats. 4 BHK - Size 184.69 m² • No. & type of Commercial Units : --- • Details of amenities if any: No | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | 378 occupants and 100 visitors | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during | <ul style="list-style-type: none"> • Water requirement (KL/day): 21.75 • Source of water: Water tankers • Waste water generation quantity (KL/day): 5.73 • Mode of disposal: Soak tank | | | | | | | | | | | | | | | |

| | construction phase | <ul style="list-style-type: none"> • Details of reuse of water, if any: No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|------------------------------|---|--------------------------|----------|-------|-------|-------------------------------|-----------------------|--------|---|--|---------------------|-----|---|--|-------------|----|---|-----------------|-----------------------------|---|---|-----------------|---------------|------------------------------|--------------------------|--------------------------|-----------|-------|------------|-----------------|-----------|--------|------------|----------------|
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Fresh water requirement (KL/day):72.54 • Source of water: Water supply from AMC • Waste water generation quantity (KL/day):55.3 • Mode of disposal: Into drainage line of AMC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | Available at site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>2,600</td> <td>2,600</td> <td>Development of landscape area</td> </tr> <tr> <td>Other excavated earth</td> <td>23,400</td> <td>13,000 m³ will be used for back filling and raising plinth level.</td> <td>Balance earth will be used at other projects as per requirement.</td> </tr> <tr> <td>Construction debris</td> <td>300</td> <td>170 m³ will be used for development of internal road.</td> <td>Balance debris will be handed over to local authority or fill in low laying areas.</td> </tr> <tr> <td>Steel scrap</td> <td>10</td> <td>0</td> <td>Sold to vendors</td> </tr> <tr> <td>Discarded packing materials</td> <td>8</td> <td>0</td> <td>Sold to vendors</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste</td> <td>94.72</td> <td>White bins</td> <td>Sold to vendors</td> </tr> <tr> <td>Wet waste</td> <td>142.08</td> <td>Green Bins</td> <td>Municipal bins</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: yes • Capacity and no. of community bins to be placed within premises: 15 kg and 10 number of community bins to be placed in common areas. • Landfill site where waste will be ultimately disposed by local authority: Nearby municipal solid waste collection / dumping site of AMC. | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | Top Soil | 2,600 | 2,600 | Development of landscape area | Other excavated earth | 23,400 | 13,000 m ³ will be used for back filling and raising plinth level. | Balance earth will be used at other projects as per requirement. | Construction debris | 300 | 170 m ³ will be used for development of internal road. | Balance debris will be handed over to local authority or fill in low laying areas. | Steel scrap | 10 | 0 | Sold to vendors | Discarded packing materials | 8 | 0 | Sold to vendors | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste | 94.72 | White bins | Sold to vendors | Wet waste | 142.08 | Green Bins | Municipal bins |
| | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 2,600 | 2,600 | Development of landscape area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other excavated earth | 23,400 | 13,000 m ³ will be used for back filling and raising plinth level. | Balance earth will be used at other projects as per requirement. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction debris | 300 | 170 m ³ will be used for development of internal road. | Balance debris will be handed over to local authority or fill in low laying areas. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 10 | 0 | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 8 | 0 | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste | 94.72 | White bins | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste | 142.08 | Green Bins | Municipal bins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total number of CPS requirement for the project as per NBC :84 • Number of CPS requirement for residential units as per NBC: 84 • Total Parking area provided (m²) & No. of CPS: 9,650.0 m² & 306 CPS • Parking area provided in basement (m²) & No. of CPS:8,800 m² & 275 CPS • Parking area provided in hollow plinth (m²) & No. of CPS:600 m² & 21 CPS • Parking area provided as open surface (m²) & No. of CPS:250.0 m² & 10 CPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-----|--|---|---------------------------|------------------|----------------------------|---------------------|
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 30 m and 24 m wide roads • Number of Entry & Exit provided on approach road/s: Three gates will be provided. • Width of Entry & Exit provided on approach road/s: 6 m & 8.6 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4.0 m • Width of all internal roads: 6 m & 8.6 m. | | | | |
| 17. | Details of Green Building measures proposed. | Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 6 numbers of solar lighting, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 2 nos. of percolating wells etc. | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: 500 KVA Connected load: 600 KVA Source: Torrent Power Limited • % of saving with calculations: ~30% by use of LED, solar lights and star rated energy efficient electronic consumer durables • Compliance of the ECBC guidelines (Yes / No), if yes, compliance in tabular form: only roof area • DG Sets: No. and capacity of the DG sets: 1 x 62.5 KVA Fuel & its quantity: HSD, 12 litre/hr | | | | |
| 19. | Fire and Life Safety Measures | <ul style="list-style-type: none"> • During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service. • During operation phase (Commercial): Fire extinguishers, hose reel, manually operated electric fire alarm system, wet riser, automatic sprinkler system in basement, underground static water storage tank-200 KL capacity, terrace tank -30 KL capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm² at terrace level etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area m ² | No. of staircase | Width of the staircase (m) | Travel distance (m) |
| | A, B, C, | B+HP + 14 | 461.79 | 1 | 2.0 | 26 |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • Level of the Ground water table: • No. & dimensions of RWH tank(s) : 2 No and 2.5m X 2.0 m X 3.0 m • No. and depth of percolations wells : 2 nos. • Details on Pre-treatment facilities: oil and grease removal and filter. | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) :200.0 • Area covered by shrubs and bushes (m²):150.0 • Lawn covered area (m²):250.0 • Total Green Area (m²):600.0 • Green Area % of plot area: 10% • No. of trees and species to be planted: 88 number of trees of Limbdo, | | | | |

| | | |
|-----|--|---|
| | | KaadoSiris, Jambu, Asopalav, Desibadam and Gulmohar |
| 23. | Dust control measures | Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc. |
| 24. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Allocation of Rs.18.0 lacs & Rs.10 lacs as capital cost & recurring cost respectively has been made for EMP & EMS. |
| 25. | Details of eco friendly building materials | Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc. |
| 26. | Details of amenities to be provided to construction workers. | Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules. |
| 27. | Documents related to land possession | Village form no. 7 shows that the agricultural land is in the name of Applicant. Copy of application made for obtaining N.A permission has been submitted. Copy of Zoning certificate obtained from AMC has been submitted which shows that the project site fall in the residential zone R1. |

During the meeting, after detailed discussion it was decided to recommend the project to SEIAA Gujarat for grant of Environmental Clearance.

| | | | |
|----|------------|--|--------------------|
| 8. | Casa Vyoma | F.P No: 269, S.P. No: 269/A, T.P.S No: 1 Vastrapur, Ahmedabad | Screening/scoping. |
|----|------------|--|--------------------|

The SEIAA, Gujarat has accorded environmental clearance to the Ahmedabad Education Society for the residential building construction project at F.P No: 269, S.P. No: 269/A, T.P.S No: 1 Vastrapur, Ahmedabad vide order no. SEIAA/GUJ/EC/8(a)/224/2013 dated 22/07/2013 for the built up area of 71,667.5 m² comprising of 6 twin type buildings housing total 512 residential flats.

The project proponent in the name of Sumedha Spacelink LLP vide their online proposal no. SIA/GJ/NCP/54056/2016 dated 25/05/2016 applied for obtaining Environmental Clearance for the proposed expansion of the project which was accorded Environmental Clearance vide order dated 22/07/2013.

The application of the proposed expansion was considered during the meeting. Details of the project after the proposed expansion as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details |
|---------|---------------------------------------|-----------------------------------|
| 1. | Proposal is for | Expansion [SIA/GJ/NCP/54056/2016] |
| 2. | Type of Project | Residential Project |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) |
| 4. | Name of the | Casa Vyoma |

| | project | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|--|-------------|----------|----------------------------|-----------|-----------|-----------------------------------|----|----------|------------------------------------|---------|----------|--------------------------|------|----|
| 5. | Name of Developer | M/s Sumedha Spacelink LLP | | | | | | | | | | | | | | | |
| 6. | Estimated Project Cost (Rs. In Crores) | 90 Crores | | | | | | | | | | | | | | | |
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> Land / Plot Area (m²): 19,042.45 FSI area (m²):51,401.86 Total BUA (m²):89,592.92 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area (m²)</td> <td>51,414.61</td> <td>51,401.86</td> </tr> <tr> <td>Ground Coverage (m²)</td> <td>NA</td> <td>5,454.66</td> </tr> <tr> <td>Common Plot Area (m²)</td> <td>1904.24</td> <td>3,108.81</td> </tr> <tr> <td>Max. building height (m)</td> <td>37.5</td> <td>45</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area (m ²) | 51,414.61 | 51,401.86 | Ground Coverage (m ²) | NA | 5,454.66 | Common Plot Area (m ²) | 1904.24 | 3,108.81 | Max. building height (m) | 37.5 | 45 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area (m ²) | 51,414.61 | 51,401.86 | | | | | | | | | | | | | | | |
| Ground Coverage (m ²) | NA | 5,454.66 | | | | | | | | | | | | | | | |
| Common Plot Area (m ²) | 1904.24 | 3,108.81 | | | | | | | | | | | | | | | |
| Max. building height (m) | 37.5 | 45 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> No. of Buildings:6 No. of Blocks:12 Scope of buildings/blocks: 4 buildings – basement + hollow plinth + 13 floors. 2 buildings – basement + hollow plinth + 12 floors. No.& size of Residential Units:534 flats. No. & type of Commercial Units : --- Details of amenities if any: No | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | 378 occupants and 100 visitors | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> Water requirement (KL/day): 19.75 Source of water: Water tankers Waste water generation quantity (KL/day): 5.73 Mode of disposal: Soak tank Details of reuse of water, if any: No | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> Total water requirement (KL/day): 372.82 Fresh water requirement (KL/day): 253.56 Source of water: water supply from AMC Waste water generation quantity (KL/day): 291.36 Mode of disposal: Sewage to be generated will be treated in the proposed onsite STP. Treated sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AMC. In case of STP provision, capacity of STP: Yes 350 KL/day STP Technology: STP with MBBR reactor. Purposes for treated water utilization: Gardening and Flushing Quantity of treated water to be reused:1.Gardening (KL/day):8.63 | | | | | | | | | | | | | | | |

| | | <p>2. Flushing (KL/day):110.63</p> <ul style="list-style-type: none"> • Provision of dual plumbing system (Yes/No): yes • Quantity and type (treated/untreated) of sewage to be discharged: Treated sewage will be used for gardening & flushing purpose within premises and remaining quantity of treated sewage will be discharged into the drainage line of AMC. • Mode of disposal: As above. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|------------------------------|---|--------------------------|----------|-------|-------|-------------------------------|-----------------------|--------|---|--|---------------------|-----|---|--|-------------|----|---|-----------------|-----------------------------|----|---|-----------------|---------------|------------------------------|--------------------------|--------------------------|-----------|--------|------------|-----------------|-----------|--------|------------|----------------|
| 13. | Status of water supply and drainage line | Available at site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>2,500</td> <td>2,500</td> <td>Development of landscape area</td> </tr> <tr> <td>Other excavated earth</td> <td>47,500</td> <td>22,500 m³ will be used for back filling and raising plinth level.</td> <td>Balance earth will be used at other projects as per requirement.</td> </tr> <tr> <td>Construction debris</td> <td>800</td> <td>350 m³ will be used for development of internal road.</td> <td>Balance debris will be handed over to local authority or fill in low laying areas.</td> </tr> <tr> <td>Steel scrap</td> <td>20</td> <td>0</td> <td>Sold to vendors</td> </tr> <tr> <td>Discarded packing materials</td> <td>15</td> <td>0</td> <td>Sold to vendors</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste</td> <td>596.72</td> <td>White bins</td> <td>Sold to vendors</td> </tr> <tr> <td>Wet waste</td> <td>895.08</td> <td>Green Bins</td> <td>Municipal bins</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: yes • Capacity and no. of community bins to be placed within premises: 15 kg and 20 number of community bins to be placed in common areas. • Landfill site where waste will be ultimately disposed by local authority: Nearby municipal solid waste collection / dumping site of AMC. | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | Top Soil | 2,500 | 2,500 | Development of landscape area | Other excavated earth | 47,500 | 22,500 m ³ will be used for back filling and raising plinth level. | Balance earth will be used at other projects as per requirement. | Construction debris | 800 | 350 m ³ will be used for development of internal road. | Balance debris will be handed over to local authority or fill in low laying areas. | Steel scrap | 20 | 0 | Sold to vendors | Discarded packing materials | 15 | 0 | Sold to vendors | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste | 596.72 | White bins | Sold to vendors | Wet waste | 895.08 | Green Bins | Municipal bins |
| | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 2,500 | 2,500 | Development of landscape area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other excavated earth | 47,500 | 22,500 m ³ will be used for back filling and raising plinth level. | Balance earth will be used at other projects as per requirement. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction debris | 800 | 350 m ³ will be used for development of internal road. | Balance debris will be handed over to local authority or fill in low laying areas. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 20 | 0 | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 15 | 0 | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste | 596.72 | White bins | Sold to vendors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste | 895.08 | Green Bins | Municipal bins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 10,280.37 m² • Parking area requirement for residential units as per GDCR: 10,280.37 m² • Total number of CPS requirement for the project as per NBC :534 • Number of CPS requirement for residential units as per NBC: 534 • Total Parking area provided (m²) & No. of CPS: 22,044.45 m² & 725 CPS • Parking area provided in basement (m²) & No. of CPS:16,256.93 m² & 508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-----|--|--|---------------------------|------------------|----------------------------|---------------------|
| | | <p>CPS</p> <ul style="list-style-type: none"> • Parking area provided in hollow plinth (m²) & No. of CPS: 4,331.0 m² & 154 CPS • Parking area provided as open surface (m²) & No. of CPS: 1,456.30 m² & 63 CPS | | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: existing 12 m wide road which is proposed to be widen upto 18 m. • Number of Entry & Exit provided on approach road/s: Three gates will be provided. • Width of Entry & Exit provided on approach road/s: 9 m & 7.5 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5.0 m • Width of all internal roads: 9 m, 7.5 m & 6 m. | | | | |
| 17. | Details of Green Building measures proposed. | Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 5 nos. of percolating wells etc. | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: 3000 KVA Connected load: Source: Torrent Power Limited • % of saving with calculations: ~30% by use of LED, solar lights and star rated energy efficient electronic consumer durables • Compliance of the ECBC guidelines (Yes / No),if yes, compliance in tabular form: only roof area • DG Sets: No. and capacity of the DG sets:1 x 125 KVA Fuel & its quantity: HSD, 12 litre/hr | | | | |
| 19. | Fire and Life Safety Measures | <ul style="list-style-type: none"> • During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service. • During operation phase (Commercial): Fire extinguishers, hose reel, manually operated electric fire alarm system, wet riser, automatic sprinkler system in basement, underground static water storage tanks-2 x 100 KL capacity, terrace tank -10 KL capacity on each building, pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm² at terrace level etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area m ² | No. of staircase | Width of the staircase (m) | Travel distance (m) |
| | A,B,K,L | B +HP+12 | 411.73 | 1 | 2.0 | 21 |
| | I,J | B+HP+13 | 411.73 | 1 | 2.0 | 21 |
| | C,D,E,F,G,H | B+HP+13 | 497.37 | 1 | 2.0 | 26 |
| 21. | Rain Water | <ul style="list-style-type: none"> • Level of the Ground water table: • No. & dimensions of RWH tank(s) : 5 No and 2.5m X 2.0 m X 3.0 m | | | | |

| | | |
|-----|--|--|
| | Harvesting (RWH) | <ul style="list-style-type: none"> No. and depth of percolations wells : 5 nos. Details on Pre-treatment facilities: oil and grease removal and filter. |
| 22. | Green area details | <ul style="list-style-type: none"> Tree covered area (m²) :1,192.59 Area covered by shrubs and bushes (m²):included in lawn covered are. Lawn covered area (m²): 1,916.22 Total Green Area (m²):3,108.81 Green Area % of plot area: 16% No. of trees and species to be planted: 286 number of trees of Limbdo, KaadoSiris, Jambu, Asopalav, Desibadam and Gulmohar |
| 23. | Dust control measures | Spraying of water, peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc. |
| 24. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | |
| 25. | Details of eco friendly building materials | Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, lead free paints etc. |
| 26. | Details of amenities to be provided to construction workers. | Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules. |
| 27. | Documents related to land possession | Village from no. 7 submitted by them shows that the land admeasuring 19,402 m ² for residential use is in the name of Sumedha Spacelink LLP thorough its partner. |

During the meeting, it was observed that they have submitted structural stability certificate for buildings E-F, C-D & K-L stating that the buildings have been designed for basement + H.P.+14 floors considering relevant IS codes, whereas the buildings proposed are maximum of basement + H.P.+13 floors. Further after the proposed expansion, floors of all the buildings will be increased with 2 additional floors and so structural stability certificate for all the building should be submitted. It was found that the project plan submitted by them was not properly legible. After detailed discussion, it was decided to appraise the project only after submission of the following:

1. The existing Environmental Clearance needs to be transferred from The Ahmedabad Education Society to M/s Sumedha Spacelink LLP.
2. Justification for the proposed expansion with supporting documents and/or copy of permission obtained from concerned authority for the proposed expansion.
3. Compliance report in respect of the stipulated terms and conditions in the Environmental Clearance order no. SEIAA/GUJ/EC/8(a)/224/2013 dated 22/07/2013.
4. Full size project plan showing building wise & floor wise built up area, FSI area, floor area tables & plot area statement.
5. Structural stability certificate from a structural engineer for all the building stating that the existing

foundation of the buildings are capable of bearing the load of the additional floors as proposed after expansion.

6. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay.
7. A certificate from the Chartered Civil Engineer stating the percentage of the work completed so far both in terms of project cost and project activities.
8. Soil testing report carried out for the proposed 12 & 13 storied buildings of the project.

| | | | |
|----|---------------------------------|--|--------------------|
| 9. | Arvind & Smart Value Homes LLP. | Consolidated Block Number: 1263 part, Block Number 1432, 1433, 1434, 1435, 1417, 1347, 1420, 1421, 1422, 1944, Motibhoyan and Consolidated Block Number 605, 668, Vadser, Taluka Kalol, Gandhinagar. | Screening/scoping. |
|----|---------------------------------|--|--------------------|

SEIAA Gujarat has accorded Environmental Clearance to M/s Arvind Infrastructure Limited vide order no. SEIAA/GUJ/EC/8(b)/11/2011 dated 20/01/2011 for the township project at Block Number 1263/p, Vill. Moti Bhoyan, Tal. Kalol, Dist. Gandhinagar for built up area of 2,50,000 m² comprising of 2598 dwelling units with few commercial shops & offices as well as civic amenities viz. parks, club house, common plots, amphitheatre etc.

M/s Arvind & Smart Value Homes LLP has applied for expansion of the above project vide proposal no. SIA/GJ/NCP/13655/2016 on 26/05/2016. Project proponent has obtained Environmental Clearance vide order no. SEIAA/GUJ/EC/8(b)/11/2011 dated 20/01/2011 in the name of M/s Arvind Infrastructure Limited.

Proposal for the proposed expansion was considered during the meeting. Details of the project after the proposed expansion as presented before the committee is tabulated below:

| Description | As per Environment Clearance | As per Revised Plan |
|-----------------------------------|--|---|
| Survey Number | Block Number 1263/p, Vill. Moti Bhoyan, Tal. Kalol, Dist. Gandhinagar | Consolidated Block Number: 1263 part, Block Number 1432, 1433, 1434, 1435, 1417, 1347, 1420, 1421, 1422, 1944, Motibhoyan and Consolidated Block Number 605, 668, Vadser, Taluka Kalol, Gandhinagar |
| Plot area (m ²) | 1,58,800 | 2,42,873 |
| Ground Coverage (m ²) | 53,265 | 76,000.74 |
| Floor Area (m ²),FSI | 1,90,560 | 2,76,599.31 |
| Built-up area (m ²) | 2,50,000 | 3,62,098.22 |
| No. of floors | HP+G+4 | HP/G+ 7 |
| Maximum height (m) | 16 | 25 |
| Units | 2598 dwelling units with few commercial shops & offices as well as civic amenities viz. parks, club house, common plots, amphitheatre etc. | Bungalows: 81 units Flat: 3832 units Shops/offices: 13 units School, PHC and Community Hall , Society office |

As the built up area of the project is > 1,50,000 m², the project falls in the project activity 8(b) as per the schedule annexed with the EIA Notification – 2006.

Presentation made during the meeting also included the details like resource requirement, waste generation & management, project location, parking area provision etc.

During the meeting, the project proponent was asked make sure that the children of the surrounding villages will also be allowed get admission in the school to come up in the project. After detailed discussion, the following Terms of Reference were prescribed for their incorporation in the EIA report to be prepared covering the study area of 5 km radius around the project boundary.

1. Land ownership documents.
2. The existing Environmental Clearance needs to be transferred from M/s Arvind Infrastructure Limited to M/s Arvind & Smart Value Homes LLP.
3. Justification for the proposed expansion with supporting documents and/or copy of permission obtained from concerned authority for the proposed expansion.
4. Compliance report in respect of the stipulated terms and conditions in the Environmental Clearance order no. SEIAA/GUJ/EC/8(b)/11/2011 dated 20/01/2011.
5. Layout plan/s showing location of buildings, roads, D.G.sets, STP, composting facility, parking space, green belt (tree covered area), common plot, location of percolation wells etc. with different colour codes.
6. Provision of separate entry & exit and adequate margin all round the periphery for easy unobstructed movement of fire tender without reversing.
7. Implementation schedule of the project along with the bar chart.
8. A map of the study area delineating the major topographical features such as land use, drainage, locations of habitats, environmental sensitive areas, major constructions including roads, railways, pipelines, industries if any in the area are to be mentioned.
9. Land use map of the study area based on high resolution satellite imagery delineating the forest, agricultural land, water bodies, settlements and other cultural features. Details of change / creation in land use / land cover due to the proposed project.
10. Details of site topography along with the contour plan of the project area. Details of change in topography of the area due to the project.
11. Scope of the buildings to come up in the project as well as exact details of the residential units, service and commercial units as well as other amenities to come up in the project.
12. Height of the buildings to come up in the project. Break up of FSI, built up area plot wise, block wise plan & area statement.
13. Structural stability certificate regarding the proposed building height.
14. Proposed fixed population as well as floating population including visitors considered for the proposed project.
15. Source of water supply during the construction phase along with the expected quantity of the water requirement. Waste water disposal plan during the construction phase.
16. Detailed fresh water consumption based on activity and area of the project as per the NBC norms. Exact source of water supply during operation phase. Permission from the concerned authority for water supply.

17. Domestic waste water disposal plan during operation phase and permission of concerned authority for sewage disposal.
18. Details of the STP with size of each unit, its location on the plan and its adequacy. Measures proposed to prevent odour nuisance due to the STP operation. Provision of dual plumbing for reuse of treated sewage for purposes like flushing, cooling tower make up etc.
19. Details of water conservation measures including provision of low water consuming devices.
20. Application wise break up of treated sewage utilization. Adequacy of open land area available for utilizing treated sewage for plantation / gardening. Suitability of use of treated sewage on the land with respect to the soil characteristic etc. shall be studied and a report in this regard shall be submitted.
21. Details of storm water management. Detailed plan to manage treated sewage in monsoon season. How it will be ensured that treated sewage won't flow outside the premises linked with storm water during high rainy days.
22. Details of soil excavation / filling required for the project along with its quantification based on backup calculations. Details with respect to proposed use / disposal of excavated soil. Plan for management, use and disposal of construction debris including excavated materials during the construction phase.
23. Details of top soil management plan during construction phase. If the topsoil is proposed to be preserved, the details relating to the quantity of topsoil stored, demarcated area on plan where it is stored along with preservation plan is to be given.
24. Engineering controls proposed for dust control including barricading the site during the construction period.
25. Details on impacts of air emission from the vehicles during the construction and operation phases, emission during loading, unloading, transportation and storage of construction materials etc. and mitigation measures thereof should be incorporated in the EIA report.
26. Details of the D.G. sets including fuel, quantity, stack height, location as well as the acoustic measures proposed to abate noise pollution.
27. Map of the study area clearly delineating the location of monitoring stations for air, water, soil and noise, superimposed with location of habitats are to be shown.
28. Details of base line ambient air quality monitoring data of one season other than monsoon for at least five locations in 5 km study area and impact analysis due to the proposed project. Parameters namely PM₁₀, PM_{2.5}, NO₂, SO_x and CO shall be considered. Air quality modelling shall be carried out for prediction of impact of the project on the air quality of the area. The details of the model used and the input parameters used for modelling shall be provided. The air quality contours shall be shown on the location map clearly indicating the location of site, location of sensitive receptors, if any, and habitation. Latest available IMD data shall be utilized.
29. Details of incremental pollution load on the ambient air quality, noise and water quality due to the project.
30. Plan to curb noise likely to be generated from the use of construction equipments like mixers, vibrators etc. Impact of project construction/operation on the noise on account of construction equipment, construction/demolition activities and road traffic is to be studied.
31. Details with respect to the quantity of the generation of the garbage / Municipal Solid waste(biodegradable & recyclable waste), Bio Medical waste, electronic waste and mode of its

- treatment and disposal. Details of composting facility, if any proposed for composting of bio-degradable waste.
32. Details of authorized municipal solid waste collection & disposal facilities, biomedical treatment facilities and hazardous waste disposal facilities in the area should be included. Copy of permission obtained from concerned authority/ies should be submitted.
 33. Management and disposal of temporary structures, made during construction phase are to be addressed.
 34. Detailed parking plan showing accommodation of two wheelers and four wheelers, its adequacy for the project and norms adopted for the calculations. The details shall include the parking requirement on the basis of footfalls, as per present GDCR and National Building Code (NBC) guidelines for each individual component of the township. The backup calculations showing the bifurcation of the built up area according to the activity vis-à-vis parking area required shall be furnished. Mark the area of parking on the drawing showing the parking. Also details of visitors parking, whether considered in total parking calculations / provisions or not.
 35. Base line status of the existing traffic, impact on it due to the project activities (prior to construction, during construction and at full site operation), carrying capacity of the existing roads and details of traffic management in and outside the project during construction and operation phase of the project.
 36. Base line ecological status. In case of any scheduled fauna, conservation plan should be provided.
 37. Details of existing trees to be protected / preserved / transplanted / removed. Detailed green belt development plan as per the CPCB guidelines, including area of tree plantation, its demarcation on the map, number and types of trees and budget allocation thereof. Also provide the break-up of the greenbelt viz. the tree covered and lawn covered area.
 38. Details of use of eco-friendly building material including fly ash bricks, fly ash paving blocks, RMC, lead free paints, use of PPC in concrete etc.
 39. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents due to heat island effect and emissions from the air conditioning systems.
 40. Details of Green Building Concept to be adopted for the project.
 41. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Measures proposed to comply with the ECBC norms for energy conservation.
 42. Scheme for rain water harvesting and ground water recharge with proper scientific calculations considering rainfall in the region, catchment area, land / soil characteristics, ground water recharge rate, duration of rain water harvesting etc. Details of provisions for pre-treatment of the rainwater in the case of surface run off is to be harvested. Location of recharge percolation wells on the layout plan.
 43. Details of seismic zone of the project and design aspects required to be adhered to as per national standards for buildings to make it earthquake proof.
 44. Details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.
 45. Details of safety measures proposed for the construction workers including provision of personal protection equipment. Details of registration and provisions to be made by the project proponent to

follow Building and other Construction Workers Acts and Rules and undertaking for the same.

46. Plan showing emergency exits as well as location of stair cases, lifts and pathways etc. and compliance to the GDCR and NBC in this regard.
47. Details of first aid / fire fighting and other emergency services to be provided during construction phase and operation phase including the training to be provided to the residential staff of the project as first aid providers, fire fighters etc.
48. Details of disaster management plan during operation phase of the project should also include scenario of natural catastrophe like earth quake, cyclone and floods in addition to other disasters. The plan should include the details of (i) Emergency lighting plan (ii) details of power back up system in the case of emergency (iii) fire fighting arrangements (iv) first aid arrangement (v) Training and Mock drill (vi) Emergency announcement system (vii) Signages (viii) location of emergency stair cases and pathways etc.
49. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay. Details of monitoring / supervision cell to monitor environmental aspects during construction phase as well as operation phase including provision of qualified construction safety officer.
50. Notarized undertaking stating that the children from the surrounding villages will be allowed to get admission in the school to come up in the proposed project.
51. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
52. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned TORs shall be considered for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006 as well as the model Terms of Reference mentioned in the EIA Manual for "Building, Construction, Townships & Area Development Projects" prepared by Ministry of Environment, Forest & Climate Change. The project shall be appraised on receipt of the EIA report.

| | | | |
|-----|--|---|----------------------------------|
| 10. | Building construction project by Gujarat Housing Board | F.P.No.49/P, Single plot unit, at Munjka, Rajkot. | Screening / scoping & appraisal. |
|-----|--|---|----------------------------------|

Details of the project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details |
|---------|---------------------------------------|--|
| 1. | Proposal is for | New Project |
| 2. | Type of Project | Residential & Commercial Building Construction Project |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) |
| 4. | Name of the project | Residential & Commercial Building Construction Project |
| 5. | Name of Developer | Gujarat Housing Board |
| 6. | Estimated | Rs . 50 Crore |

| | Project Cost (Rs. In Crores) | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|---|---------------------|--------------------------------|--------------------------|-----------|-----------|--|---|-----------------------|----------------------------------|-----------------------------|----------|-------------------------|---|-------|
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> Land / Plot Area (m²): 10,887.90 FSI area (m²): 20,235.68 Total BUA (m²): 31,426.98 m² <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area, m²</td> <td>22,644.99</td> <td>20,235.68</td> </tr> <tr> <td>Ground Coverage, m²</td> <td>---</td> <td>2,214.94</td> </tr> <tr> <td>Common Plot Area, m²</td> <td>1,088.89</td> <td>1,866.41</td> </tr> <tr> <td>Max. building height, m</td> <td>-</td> <td>46.50</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area, m ² | 22,644.99 | 20,235.68 | Ground Coverage, m ² | --- | 2,214.94 | Common Plot Area, m ² | 1,088.89 | 1,866.41 | Max. building height, m | - | 46.50 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area, m ² | 22,644.99 | 20,235.68 | | | | | | | | | | | | | | | |
| Ground Coverage, m ² | --- | 2,214.94 | | | | | | | | | | | | | | | |
| Common Plot Area, m ² | 1,088.89 | 1,866.41 | | | | | | | | | | | | | | | |
| Max. building height, m | - | 46.50 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> No. of Buildings: 4 No. of Blocks: 8 Scope of buildings/blocks: Ground floor (parking & shops) + 13 floors No. of Residential Units: 416 Res. + 16 shops No. of commercial units: 16 shops Details of amenities if any: - | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | 2128 person | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> Water requirement (KL/day): 34.1 Source of water: Local water tankers Waste water generation quantity (KL/day): 3.2 Mode of disposal: Septic tank to sock pit Details of reuse of water, if any: No | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> Fresh water requirement (KL/day): 287 Source of water: Water supply from Rajkot Urban Development Authority (RUDA). Waste water generation quantity (KL/day): 227 Mode of disposal: Domestic wastewater will be disposed off into RUDA sewerage line. | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | Water supply & drainage connection of RUDA will be available to the project during the operation phase. | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Generation (kg/day)</th> <th>Quantity to be reused (kg/day)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>8.0</td> <td>100 % reuse for green belt development</td> <td rowspan="2">Remaining will be send to the nearest collection point of RMC/RUDA.</td> </tr> <tr> <td>Other excavated earth</td> <td>24.0</td> <td>80 % reuse for back filling</td> </tr> </tbody> </table> | Description | Generation (kg/day) | Quantity to be reused (kg/day) | Mode of Disposal / Reuse | Top Soil | 8.0 | 100 % reuse for green belt development | Remaining will be send to the nearest collection point of RMC/RUDA. | Other excavated earth | 24.0 | 80 % reuse for back filling | | | | |
| Description | Generation (kg/day) | Quantity to be reused (kg/day) | Mode of Disposal / Reuse | | | | | | | | | | | | | | |
| Top Soil | 8.0 | 100 % reuse for green belt development | Remaining will be send to the nearest collection point of RMC/RUDA. | | | | | | | | | | | | | | |
| Other excavated earth | 24.0 | 80 % reuse for back filling | | | | | | | | | | | | | | | |

| | | <table border="1"> <tr> <td>Construction debris</td> <td>82.5</td> <td>30% reuse for internal road sub base & plinth filling.</td> <td rowspan="3">Will be sold to recycler / vendors.</td> </tr> <tr> <td>Steel scrap</td> <td>3.0</td> <td>100% reuse</td> </tr> <tr> <td>Discarded packing materials</td> <td>1.0</td> <td>-</td> </tr> <tr> <td colspan="4" style="text-align: center;">Total Solid Waste shall (50 workers x 500 gm/person/) 25 kg/day</td> </tr> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc.</td> <td rowspan="2">1400</td> <td rowspan="2">Organic waste and In organic waste will be collected in different buckets.</td> <td rowspan="2">The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of RUDA.</td> </tr> <tr> <td>Wet waste -Waste vegetable and food</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: collection of organic and inorganic waste will be in different buckets and it will be subsequently collected by RUDA • Capacity and no. of community bins to be placed within premises: No of Bins: 60 for Residential units & 2 for commercial units, Volume of Bins: 80 Lit each • Landfill site where waste will be ultimately disposed by local authority: at the nearest MSW collection point of RUDA. | Construction debris | 82.5 | 30% reuse for internal road sub base & plinth filling. | Will be sold to recycler / vendors. | Steel scrap | 3.0 | 100% reuse | Discarded packing materials | 1.0 | - | Total Solid Waste shall (50 workers x 500 gm/person/) 25 kg/day | | | | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc. | 1400 | Organic waste and In organic waste will be collected in different buckets. | The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of RUDA. | Wet waste -Waste vegetable and food |
|---|------------------------------|---|---|------|--|-------------------------------------|-------------|-----|------------|-----------------------------|-----|---|--|--|--|--|---------------|------------------------------|--------------------------|--------------------------|---|------|--|---|--|
| Construction debris | 82.5 | 30% reuse for internal road sub base & plinth filling. | Will be sold to recycler / vendors. | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 3.0 | 100% reuse | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 1.0 | - | | | | | | | | | | | | | | | | | | | | | | | |
| Total Solid Waste shall (50 workers x 500 gm/person/) 25 kg/day | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste -Papers, cartons, thermocol, plastic, polythene bags, glasses etc. | 1400 | Organic waste and In organic waste will be collected in different buckets. | The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of RUDA. | | | | | | | | | | | | | | | | | | | | | | |
| Wet waste -Waste vegetable and food | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 4,090.42 m² • Parking area requirement for residential units as per GDCR: 4,018.04 m² • Parking area requirement for Commercial units as per GDCR: 72.38 m² • Total number of CPS requirement for the project as per NBC :211 • Number of CPS requirement for residential units as per NBC: 208 • Number of CPS requirement for commercial units as per NBC:3 • Total Parking area provided (m²) & No. of CPS: 5,226.19 m² & 214 CPS • Parking area provided in hollow plinth (m²) & No. of CPS: 1,697.38 m² 61 CPS | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-----|--|--|---------------------------|------------------|---------------------------|---------------------|
| | | <ul style="list-style-type: none"> • Parking area provided as open surface (m²) & No. of CPS: 3,528.81 & 153 CPS. | | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 30.5 m TPS Road • Number of Entry & Exit provided on approach road/s: one gate is proposed. • Width of Entry & Exit provided on approach road/s: 9 m. • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 4.5 • Width of all internal roads: 7.5 m & 9 m. | | | | |
| 17. | Details of Green Building measures proposed. | Use of transformers and motors having minimum efficiency of 85%, use of CFL or solar light in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement, tree plantation, rain water harvesting through ground water recharge etc. | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: 1000 KW Connected load: -- • Source : Torrent Power Limited • Energy saving measures: Use of transformers and motors having minimum efficiency of 85%, use of CFL or solar light in the common areas, use of light colors to reduce the light absorption and minimize the cooling requirement etc. • DG Sets: Not proposed. | | | | |
| 19. | Fire and Life Safety Measures | Underground fire water tank of 100 KL, overhead water tank of 20 KL on each block, fire extinguishers at each floor, fire hydrants, hose reel, fire alarm at each floor etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area m ² | No. of staircase | Width of the staircase(m) | Travel distance (m) |
| | 1, 2, 3, 4 | H.P.+13 | 379.99 | 2 | 1.52 | <25 |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • Level of the Ground water table: • No. & dimensions of RWH tank(s) : • No. and depth of percolations wells : 3 nos • Details on Pre-treatment facilities : filtration. | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) : 550 • Area covered by shrubs and bushes (m²): 50 • Lawn covered area (m²): developed surrounding trees (m²): 55 • Total Green Area (m²): 655 • Green Area % of plot area: 6.0 % • No. of trees and species to be planted: 165 trees of Asopalav, Neem & Gulmohar. | | | | |
| 23. | Budgetary allocation for Environmental Management Plan | Budget allocation of Rs. 20.0 lacs for waste management, water conservation, green belt development, rain water harvesting etc. | | | | |

| | | |
|-----|--|--|
| | (Rs. in lacs) | |
| 24. | Proposed dust control measures during the construction phase | Covering the material with tarpaulin during storage & transportation, water sprinkling etc. |
| 25. | Eco friendly building material usage details. | Use of Ready Mix Concrete (RMC), lead free paints etc. |
| 26. | Details on amenities to be provided to construction workers. | Sanitation & drinking water, first aid facilities etc. |
| 27. | Documents related to land possession | Village form no. 7 & 12 as well as village form no. 6 submitted by them shows that the land has been allocated to Gujarat Housing Board. |

During the meeting, the committee observed that the built up area, number of floors & FSI area mentioned in the project plans are different from the details presented before the committee. Further looking to the water crisis in the area, the project proponent was suggested to provide Sewage Treatment Plant for treatment of sewage to be generated during the operation phase and to reuse treated sewage within premises in order to reduce fresh water consumption. The committee was of the view that all the residential units to come up in the proposed project are of 1 BHK and hence the parking area proposed by them may be adequate for the project. After detailed discussion, it was decided to consider the project only after submission of the following:

1. Project plans showing building wise & floor wise total built up area, FSI area, Floor area tables as presented before the committee.
2. Explore the possibility of providing STP for treatment of sewage to be generated during the operation phase of the project and to reuse treated sewage within premises for purposes like flushing, gardening etc. Details of the STP with size of each unit, its location on the plan and its adequacy. Measures proposed to prevent odour nuisance due to the STP operation. Provision of dual plumbing for reuse of treated sewage for flushing. STP sludge management plan. Details on budgetary allocation for the proposed STP & dual plumbing system.

| | | | |
|-----|-----------------------|--|----------------|
| 11. | Gujarat Housing Board | S.No.572,573,760/1,760/2,761/p, 756,757,759/p, Bhagdawada, Valsad. | Appraisal case |
|-----|-----------------------|--|----------------|

The project was earlier taken up in the meeting of SEAC held on 16/12/2014. During the meeting held on 16/12/2014, the Terms of Reference were prescribed for the EIA study to be done covering the 5 km radial distance from the boundary of the project site.

The project proponent vide proposal no. SIA/GJ/NCP/15675/2014 dated 13/06/2016 submitted EIA report prepared by M/s Earthcare Enviro Solutions Pvt. Ltd. CRZ maps prepared by Space Application Centre (ISRO) have been received on 24/02/2016.

Project proponent along with their expert / consultant attended the meeting for appraisal of the project. During the meeting, the project proponent was asked to submit CRZ maps on which proposed facilities are superimposed to ensure the project location with reference to CRZ. Further, the photographs showing the status of the project site were presented before the committee and it was found that 4 nos. high rise

buildings have already been constructed i.e. 15 – 20 % construction is already completed. The committee viewed it seriously that the project proponent has violated the provisions of the EIA Notification 2006 by starting the construction activity before obtaining prior Environmental Clearance. After detailed deliberation, the committee decided to consider the project only after finalization of the draft Notification No. S.O.1705(E) dated 10/05/2016 based on the provisions mentioned therein.

| | | | |
|-----|------------------|--|--------------------|
| 12. | Kavisha Infracon | R.S.No.642/2, F.P.No.104/2, T.P.S.No.3, at Ghuma, Ahmedabad. | Screening/scoping. |
|-----|------------------|--|--------------------|

Details of the proposed project as presented before the committee is tabulated below:

| Sr. No. | Particulars | Details | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|-------------|----------|--------------------------|-----|----------|---------------------------------|---|--------|----------------------------------|-------|-------|-------------------------|---|--------------|
| 1. | Proposal is for | New Project | | | | | | | | | | | | | | | |
| 2. | Type of Project | Residential & commercial building construction project | | | | | | | | | | | | | | | |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) | | | | | | | | | | | | | | | |
| 4. | Name of the project | Kavisha Infracon | | | | | | | | | | | | | | | |
| 5. | Name of Developer | Mr. Rameshbhai K. Patel. | | | | | | | | | | | | | | | |
| 6. | Estimated Project Cost (Rs. In Crores) | Rs . 80 Crore | | | | | | | | | | | | | | | |
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²): 6,207.0 • FSI area (m²): 19,227.48 • Total BUA (m²): 32,174.79 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area, m²</td> <td>---</td> <td>19227.48</td> </tr> <tr> <td>Ground Coverage, m²</td> <td>-</td> <td>1926.6</td> </tr> <tr> <td>Common Plot Area, m²</td> <td>620.7</td> <td>622.0</td> </tr> <tr> <td>Max. building height, m</td> <td>-</td> <td>49.20 m Max.</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area, m ² | --- | 19227.48 | Ground Coverage, m ² | - | 1926.6 | Common Plot Area, m ² | 620.7 | 622.0 | Max. building height, m | - | 49.20 m Max. |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area, m ² | --- | 19227.48 | | | | | | | | | | | | | | | |
| Ground Coverage, m ² | - | 1926.6 | | | | | | | | | | | | | | | |
| Common Plot Area, m ² | 620.7 | 622.0 | | | | | | | | | | | | | | | |
| Max. building height, m | - | 49.20 m Max. | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings: 3 • No. of Blocks: 5 • Scope of buildings/blocks: 2 buildings - basement + hollow plinth + 14 floors. 1 building – basement + ground floor (shops & parking) + 14 floors. • No. of Residential Units: 249 flats. • No. of Commercial Units: 18. • Details of amenities if any: - | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | 1299 persons | | | | | | | | | | | | | | | |
| 11. | Water & waste | • Water requirement (KL/day): 25.0 | | | | | | | | | | | | | | | |

| | water details during construction phase | <ul style="list-style-type: none"> • Source of water: Local water tankers • Waste water generation quantity (KL/day): 4 • Mode of disposal: Into septic tank & soak pit • Details of reuse of water, if any: No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|---------------------|--------------------------------|--------------------------|----------|-----|-------------|------------------------|-----------------------|------|-----------------------------|---|---------------------|------|--------------------------------------|---|-------------|-----|----|----------------------|-----------------------------|-----|----|----------------------|--|--|--|--|---------------|------------------------------|--------------------------|--------------------------|-----------------------|-----|--|--|
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Fresh water requirement (KL/day): 175 • Source of water: Water supply from AUDA. • Waste water generation quantity (KL/day): 138 • Mode of disposal: It is proposed to treat sewage in the proposed onsite STP & to reuse treated sewage for gardening & flushing purpose. • In case of STP provision, capacity of STP: 140.0 • STP Technology: MBR (Membrane Bioreactor) • Purposes for treated water utilization: gardening & flushing • Quantity of treated water to be reused: 1. Gardening (KL/day): 100 2. Flushing (KL/day): 38 • Provision of dual plumbing system (Yes/No): --- • Quantity and type (treated/untreated) of water to be discharged: --- • Mode of disposal: into drainage line of AUDA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Generation (kg/day)</th> <th>Quantity to be reused (kg/day)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>5.0</td> <td>100 % reuse</td> <td>For garden development</td> </tr> <tr> <td>Other excavated earth</td> <td>22.0</td> <td>50 % reuse for back filling</td> <td>Send to the nearest collection point of AMC</td> </tr> <tr> <td>Construction debris</td> <td>60.0</td> <td>30% reuse for internal road sub base</td> <td>Send to the nearest collection point of AMC</td> </tr> <tr> <td>Steel scrap</td> <td>3.0</td> <td>--</td> <td>Sell to Actual Users</td> </tr> <tr> <td>Discarded packing materials</td> <td>1.0</td> <td>--</td> <td>Sell to Actual Users</td> </tr> <tr> <td colspan="4" style="text-align: center;">Total Solid Waste shall (70 workers x 500 gm/person/) 35 kg/day</td> </tr> </tbody> </table> <p>Operation Phase:</p> <table border="1"> <thead> <tr> <th>Type of waste</th> <th>Generation Quantity (Kg/day)</th> <th>Mode of waste collection</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Dry waste & Wet waste</td> <td>750</td> <td>Organic waste and In organic waste will be collected in different buckets.</td> <td>The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of AMC.</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Details of segregation if to be done: collection of organic and inorganic waste will be in different buckets. The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be | Description | Generation (kg/day) | Quantity to be reused (kg/day) | Mode of Disposal / Reuse | Top Soil | 5.0 | 100 % reuse | For garden development | Other excavated earth | 22.0 | 50 % reuse for back filling | Send to the nearest collection point of AMC | Construction debris | 60.0 | 30% reuse for internal road sub base | Send to the nearest collection point of AMC | Steel scrap | 3.0 | -- | Sell to Actual Users | Discarded packing materials | 1.0 | -- | Sell to Actual Users | Total Solid Waste shall (70 workers x 500 gm/person/) 35 kg/day | | | | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | Dry waste & Wet waste | 750 | Organic waste and In organic waste will be collected in different buckets. | The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of AMC. |
| Description | Generation (kg/day) | Quantity to be reused (kg/day) | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Top Soil | 5.0 | 100 % reuse | For garden development | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other excavated earth | 22.0 | 50 % reuse for back filling | Send to the nearest collection point of AMC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction debris | 60.0 | 30% reuse for internal road sub base | Send to the nearest collection point of AMC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel scrap | 3.0 | -- | Sell to Actual Users | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discarded packing materials | 1.0 | -- | Sell to Actual Users | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Solid Waste shall (70 workers x 500 gm/person/) 35 kg/day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry waste & Wet waste | 750 | Organic waste and In organic waste will be collected in different buckets. | The recyclable waste will be sold off to recyclers. The non recyclable solid waste to be generated will be transferred to the nearest collection point of AMC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-----|--|---|---------------------------|------------------|---------------------------|----------------------|
| | | <p>transferred to the nearest collection point of AUDA.</p> <ul style="list-style-type: none"> • Capacity and no. of community bins to be placed within premises: 32 bins for residential units & 2 bins for commercial units: Volume of Bins: 10 Lit each • Landfill site where waste will be ultimately disposed by local authority: --- | | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 3,845.49 m² • Parking area requirement for residential units as per GDCR: 3,393.68 m² • Parking area requirement for Commercial units as per GDCR: 451.81 m² • Total number of CPS requirement for the project as per NBC: 275 nos. • Number of CPS requirement for residential units as per NBC: 249 nos. • Number of CPS requirement for commercial units as per NBC: 26 nos. • Total Parking area provided (m²) & No. of CPS: 7,871.48 & 270 CPS • Parking area provided in basement (m²) & No. of CPS: 4,654.15 m², 145 CPS. • Parking area provided in hollow plinth (m²) & No. of CPS: 1,967.33 m², 70 CPS. • Parking area provided as open surface (m²) & No. of CPS: 1,250.0 m², 54 CPS. | | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 18 m wide road. • Number of Entry & Exit provided on approach road/s: One gate will be provided. • Width of Entry & Exit provided on approach road/s: 7.5 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5 m. • Width of all internal roads: 7.5 m. | | | | |
| 17. | Details of Green Building measures proposed. | <p>Use of transformers & motors having minimum efficiency of 85%, use of CFL lights in common areas, use of light colours for walls & ceiling to reduce the light absorption & to minimize cooling requirement, rain water harvesting through ground water recharge etc.</p> | | | | |
| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> • Power supply: Maximum demand: 750 KW Connected load: - • Source : Torrent Power Limited • Energy saving measures: Use of transformers & motors having minimum efficiency of 85%, use of CFL lights in common areas, use of light colours for walls & ceiling to reduce the light absorption & to minimize cooling requirement etc. • DG Sets: not proposed. | | | | |
| 19. | Fire and Life Safety Measures | <p>Fire extinguishers at each floor, underground fire water tank of 100 KL capacity, overhead tank of 25 KL capacity will be provided.</p> | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area m ² | No. of staircase | Width of the staircase(m) | Max. Travel distance |

| | | | | | | (m) |
|-----|--|---|--------|---|------|-------|
| | A-B | B+G/H.P.+14 | 486.01 | 2 | 2.06 | 19.30 |
| | C | B+G/H.P.+14 | 291.64 | 1 | 2.06 | 19.30 |
| | D+E | B+G/H.P.+14 | 480.12 | 2 | 2.06 | 19.30 |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> • Level of the Ground water table: • No. & dimensions of RWH tank(s) : 2 nos • No. and depth of percolations wells : 2 nos • Details on Pre-treatment facilities: Filtration & removal of oil & grease. | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> • Tree covered area (m²) : 350 • Area covered by shrubs and bushes (m²): 50 • Lawn covered area (m²): 50 • Total Green Area (m²): 450.0 • Green Area % of plot area: 6 % • No. of trees and species to be planted: 188 | | | | |
| 23. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Total 48 lacs is proposed for municipal solid waste collection & disposal, sewage disposal charges, green belt development & rain water harvesting etc. | | | | |
| 24. | Proposed dust control measures during the construction phase | Water sprinkling, loose construction material will be covered with tarpaulin while storage & transportation etc. | | | | |
| 25. | Eco friendly building material usage details. | Use of Ready Mix Concrete (RMC). | | | | |
| 26. | Details on amenities to be provided to the construction workers. | Drinking water, doctor service, financial support to workers' children for education & food, safety appliances, sanitary facility etc. | | | | |
| 27. | Documents related to land possession. | Village form no. 7 & 12 submitted by them shows that land for non agricultural use is in the name of M/s Kavisha Infracon, a partnership firm, through its partner Mr. Rameshbhai K. Patel i.e the applicant. | | | | |

During the meeting, the project proponent was suggested to make provision of utilizing solar energy in the form of solar lights & solar water heaters. Further it was noticed that the hollow plinth area of 1,967.33 m² as proposed by them for parking may not be actually available as per the project plans submitted by them. Further, as proposed by them, 100 KL/day of treated sewage utilization for gardening purpose was also not convincing to the committee. It was also observed that details of the financial provision for installation, operation & maintenance of the proposed STP has not been included the budgetary provisions of the Environmental Management Plan. They were suggested to provide two gates for entry / exit. After detailed discussion, it was decided to further appraise the project only after submission of the following:

1. Details of the permissible FSI for the project and permission from the concerned competent authority or authentic supporting documents showing the availability of the proposed FSI to the project.

2. Status of availability of water supply & drainage connection to the project along with the authentic supporting documents showing that the water supply & drainage connection will be available to the project during operation phase of the project.
3. Copy of N.A permission obtained for the proposed project site.
4. Layout plan showing provision of two gates for entry/exit.
5. Explore the possibility of increasing the parking area provision for the project. Revised realistic details on parking area provision for the proposed project based on the actual parking area available in the hollow plinth as well as actual parking requirement for the project as per NBC norms.
6. Details on solar energy utilization for the proposed project.
7. Total water requirement for the project during operation phase of the project and quantity wise break up of water requirement to be met through fresh water & treated sewage.
8. Quantity wise break up of treated sewage utilization within premises and feasibility of using 100 KL/day of treated sewage for gardening purpose within premises. Complete treated sewage management plan along with disposal plan of remaining quantity of treated sewage. Design drawing of dual plumbing system to be provided for reuse of treated sewage for flushing purpose.
9. Details on budget allocated for the installation, operation & maintenance of the proposed Sewage Treatment Plant. Location of the proposed Sewage Treatment plant on the layout plan.
10. Details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.
11. Details on fire fighting facilities to be provided for the proposed high rise buildings and plans showing installation of the proposed fire fighting facilities.

| | | | |
|-----|---|--|-----------------|
| 13. | Building construction project by Mr. Bhanubhai Dahyabhai Patel. | Survey No: 100/1/1, F.P. No: 80, T.P.S No : 31, Vastrapur, Ahmedabad | Appraisal case. |
|-----|---|--|-----------------|

The project was taken up in the meeting of SEAC held on 17/02/2016. During the meeting held on 17/02/2016, it was presented that traffic survey was carried out on a road connecting S.G highway & 132 ft ring road, which shows that the road having carrying capacity of 4400 PCU will be adequate enough to cater the total traffic load of 2215 PCU after the proposed project will come into existence. After detailed discussion, it was decided to appraise the project further only after submission of the following:

1. Project plans showing built up area table, FSI area table, Floor area table and plot area statement as presented before the committee.
2. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents due to heat island effect and emissions from the air conditioning systems.
3. Floor area details on each floor of commercial building, requirement & provision of staircases as per the requirement of GDCR & NBC norms, details on travel distance of the staircase from the farthest corner of the floor as well as between the two consecutive staircases, details of the exits and staircases on each floor in high rise buildings for evacuation from the top level to the street level along with floor

wise evacuation plan in case of emergency etc.

4. Calculation and provision of minimum fire water requirement based on fire study as well as the availability of external fire fighting facility. Plans showing location of automatic sprinklers to be provided in all the buildings.
5. Details on provision to be made for ventilation, natural lighting and CO sensors in basement.
6. Details of mechanical parking to be provided (also including its operation, maintenance, energy consumption, appointing trained personnel's etc.) in the basement along with the feasibility of providing mechanical parking considering the basement height.
7. Revised layout plan showing two separate ramps for basement.

Project proponent submitted the above mentioned details along with the project plan with built up area table, FSI area table, Floor area table & plot area statement also showing two separate ramps for basement, perspective view of the building and details of the proposed mechanical parking vide their letter dated 26/05/2016.

Project proponent along with their expert / consultant attended the meeting and during the meeting, the project was appraised based on the details submitted as well as facts presented before the committee.

It was presented that there will be two separate ramps for exit & entry into the basement. It was presented that they will provide mechanical parking in all the three level basements. Total parking area provision will be 29,300.81 m² [12,261.81 m² in 3 level basements+ 16,348.0 m² as mechanical parking + 691 m² as open surface parking] which is equivalent to 923 CPS against the parking requirement of 923 CPS as per NBC norms. Details of the mechanical parking submitted by them were discussed during the meeting. It was presented that one level mechanical parking will be provided in the 2nd & 3rd level basement and two level mechanical parking will be provided in the 1st level basement. Height of the 2nd & 3rd level basement will be 3.9 m & height of the 1st level basement will be 5.5 m to accommodate proposed mechanical parking. Natural light & ventilation will be provided through open to sky area in common plot & open ducts. LED lights in basement & ramps, provision of mechanical ventilation system designed to provide 3 to 10 air changes per hour in normal condition & 30 air changes per hour in case of emergency like fire, CO sensors associated with the exhaust fans whose speed level will be automatically maintained as per the CO concentration levels, ductless jet nozzle fan system to push & pull the air in the car park area etc. will be provided in the basements. Floor plans submitted by them shows 5 nos. of staircases will be provided on 1st & 2nd floors and 3 staircases on 3rd to 13th floor. Travel distance to the staircase from the farthest corner of the floor and between the two consecutive staircases will be less than 30 m. It was presented that automatic sprinkler system will be provided on each floor.

| Sr. No. | Particulars | Details |
|---------|---------------------------------------|-------------------------------------|
| 1. | Proposal is for | New Project [SIA/GJ/NCP/34894/2015] |
| 2. | Type of Project | Commercial Project |
| 3. | Project / Activity No. [8(a) or 8(b)] | 8 (a) |
| 4. | Name of the project | Commercial Project |
| 5. | Name of Developer | Bhanubhai Dahyabhai Patel |

| 6. | Estimated Project Cost (Rs. In Crores) | 65 Crores | | | | | | | | | | | | | | | |
|----------------------|---|--|-------------------------------|------------------------------|---|--------------------------|----------|--------|-----------------|-------------------------------|---------|------------------|-------------------------------|-----------------------|----------------------|----|----|
| 7. | Whether construction work has been initiated at site? If yes, details thereof | No | | | | | | | | | | | | | | | |
| 8. | Project Details | <ul style="list-style-type: none"> • Land / Plot Area (m²): 5,767 • FSI area (m²): 23,068 • Total BUA (m²):46,240.19 <table border="1"> <thead> <tr> <th></th> <th>Permissible</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>FSI Area</td> <td>23,068</td> <td>23,068</td> </tr> <tr> <td>Ground Coverage</td> <td>NA</td> <td>3194.96</td> </tr> <tr> <td>Common Plot Area</td> <td>576.7</td> <td>577</td> </tr> <tr> <td>Max. building height</td> <td>70</td> <td>45</td> </tr> </tbody> </table> | | Permissible | Proposed | FSI Area | 23,068 | 23,068 | Ground Coverage | NA | 3194.96 | Common Plot Area | 576.7 | 577 | Max. building height | 70 | 45 |
| | Permissible | Proposed | | | | | | | | | | | | | | | |
| FSI Area | 23,068 | 23,068 | | | | | | | | | | | | | | | |
| Ground Coverage | NA | 3194.96 | | | | | | | | | | | | | | | |
| Common Plot Area | 576.7 | 577 | | | | | | | | | | | | | | | |
| Max. building height | 70 | 45 | | | | | | | | | | | | | | | |
| 9. | Building Details | <ul style="list-style-type: none"> • No. of Buildings:1 • No. of Blocks:1 • Scope of buildings/blocks: 3 level basement + ground floor +13 floors. • No.& size of Residential Units: NA • No. & type of Commercial Units: 35 shops and 242 offices • Details of amenities if any: No. | | | | | | | | | | | | | | | |
| 10. | No. of expected residents / users | 2300 occupants and 300 visitors | | | | | | | | | | | | | | | |
| 11. | Water & waste water details during construction phase | <ul style="list-style-type: none"> • Water requirement (KL/day): 19.75 • Source of water: Water tankers • Waste water generation quantity (KL/day): 5.73 • Mode of disposal: septic tank • Details of reuse of water, if any: No | | | | | | | | | | | | | | | |
| 12. | Water & waste water details during operation phase | <ul style="list-style-type: none"> • Fresh water requirement (KL/day):110.30 • Source of water: Water supply from AMC • Waste water generation quantity (KL/day):86.40 • Mode of disposal: Into sewer line of AMC. | | | | | | | | | | | | | | | |
| 13. | Status of water supply and drainage line | Available at site | | | | | | | | | | | | | | | |
| 14. | Solid waste Management | <p>Construction Phase:</p> <table border="1"> <thead> <tr> <th></th> <th>Generation (m³)</th> <th>Quantity to be reused (m³)</th> <th>Mode of Disposal / Reuse</th> </tr> </thead> <tbody> <tr> <td>Top Soil</td> <td>2,000</td> <td>2,000</td> <td>Development of landscape area</td> </tr> <tr> <td>Other</td> <td>38,000</td> <td>16,000 m³ will be</td> <td>Balance earth will be</td> </tr> </tbody> </table> | | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | Top Soil | 2,000 | 2,000 | Development of landscape area | Other | 38,000 | 16,000 m ³ will be | Balance earth will be | | | |
| | Generation (m ³) | Quantity to be reused (m ³) | Mode of Disposal / Reuse | | | | | | | | | | | | | | |
| Top Soil | 2,000 | 2,000 | Development of landscape area | | | | | | | | | | | | | | |
| Other | 38,000 | 16,000 m ³ will be | Balance earth will be | | | | | | | | | | | | | | |

| | | | | | |
|-----|--|---|------------------------------|---|--|
| | | excavated earth | | used for back filling and raising plinth level. | used at other projects as per requirement. |
| | | Construction debris | 450 | 220 m ³ will be used for development of internal road. | Balance debris will be handed over to local authority or fill in low laying area |
| | | Steel scrap | 15 | 0 | Sold to vendors |
| | | Discarded packing materials | 10 | 0 | Sold to vendors |
| | | Operation Phase: | | | |
| | | Type of waste | Generation Quantity (Kg/day) | Mode of waste collection | Mode of Disposal / Reuse |
| | | Dry waste | 288 | White bins | Sold to vendors |
| | | Wet waste | 432 | Green Bins | Municipal bins |
| | | <ul style="list-style-type: none"> • Details of segregation if to be done: yes • Capacity and no. of community bins to be placed within premises: 15 kg and 12 number of community bins to be placed in common area • Landfill site where waste will be ultimately disposed by local authority: nearby waste collection point of AMC. | | | |
| 15. | Parking Details | <ul style="list-style-type: none"> • Total parking area requirement for the project as per GDCR: 11522.02 m² • Parking area requirement for Commercial units as per GDCR:11,522.02 m² • Total number of CPS requirement for the project as per NBC :462 • Number of CPS requirement for commercial units as per NBC:462 • Total Parking area provided (m²) & No. of CPS: 29,300.81 m² & 923 CPS • Parking area provided in basement (m²) & No. of CPS: 12,261.81 m² & 383 CPS • Parking area provided as open surface (m²) & No. of CPS: 691 m² & 30 CPS. • Parking area provided as mechanical parking (m²) & No. of CPS: 16,348.0 m² and 510 CPS. | | | |
| 16. | Traffic Management | <ul style="list-style-type: none"> • Width of adjacent public roads: 12 m and 36 m wide road • Number of Entry & Exit provided on approach road/s: Four gates will be provided. • Width of Entry & Exit provided on approach road/s:6 m • Minimum width of open path all around the buildings for easy access of fire tender (excluding the width for the plantation): 5.0 m • Width of all internal roads: minimum 6.0 m | | | |
| 17. | Details of Green Building measures proposed. | Maximum use of natural lighting through architectural design, energy efficient motors & pumps, water efficient taps, maximum use of RMC & aerated blocks, use of LED lighting fixtures and low voltage lighting, solar lighting in open and landscape areas- 8 numbers of solar lighting, roof-top thermal insulation, water meters, rain water harvesting & ground water recharge through 2 nos. of percolating wells etc. | | | |

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| 18. | Energy Requirement, Source and Conservation | <ul style="list-style-type: none"> Power supply: Maximum demand: 2000 KVA Connected load: 2250 KVA Source: Torrent Power Limited % of saving with calculations: ~40% by use of LED lights, star rated energy efficient electronic consumer durables and solar lights. Compliance of the ECBC guidelines (Yes / No), if yes, compliance in tabular form: only roof area DG Sets: No. and capacity of the DG sets: 1 x 125 KVA Fuel & its quantity: HSD, 25 litre/hr | | | | |
| 19. | Fire and Life Safety Measures | <ul style="list-style-type: none"> During Construction Phase: Provision of Personal Protective Equipment's (PPEs) to the construction workers and its usage shall be ensured and supervised, training to all workers on construction safety aspects, first aid room with first aid kit, doctor & ambulance service. During operation phase (Commercial): Fire extinguishers, hose reel, manually operated electric fire alarm system, wet riser, automatic sprinkler system in basement, underground static water storage tank-200 KL capacity, terrace tank -40 KL capacity (total capacity), pump near underground static water storage tank (fire pump) with minimum Pressure of 3.5 kg/cm² at terrace level etc. | | | | |
| 20. | Details on staircase | | | | | |
| | Type & no. of buildings | No. of floors | Floor area m ² | No. of staircase | Width of the staircase (m) | Travel distance (m) |
| | Commercial | G + 13 | 2,324.96 | 3 | 2.00 and 3.03 | 24 |
| 21. | Rain Water Harvesting (RWH) | <ul style="list-style-type: none"> Level of the Ground water table: 21 m No. & dimensions of RWH tank(s) : 2 No and 2.5m X 2.0 m X 3.0 m No. and depth of percolations wells : 2 no and 17 m Details on Pre-treatment facilities : oil and grease removal and filter | | | | |
| 22. | Green area details | <ul style="list-style-type: none"> Tree covered area (m²) :200 Area covered by shrubs and bushes (m²):100 Lawn covered area (m²):477 Total Green Area (m²):777 Green Area % of plot area: 10% No. of trees and species to be planted: 87 number of trees and Limbdo, KaadoSiris, Jambu, Asopalav, DesiBadam and Gulmohar | | | | |
| 23. | Dust control measures | Spraying of water, Peripheral barricading, covered shed for cement loading area, covering the excavated earth with tarpaulin sheet etc. | | | | |
| 24. | Budgetary allocation for Environmental Management Plan (Rs. in lacs) | Allocation of Rs. 20.5 lacs & Rs.8.5 lacs as capital cost & recurring cost respectively has been made for EMP & EMS. | | | | |
| 25. | Details of | Fly ash bricks, aerated blocks, fly ash paving blocks, maximum use of RMC, | | | | |

| | | |
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| | ecofriendly building materials | lead free paints etc. |
| 26. | Details of amenities to be provided to construction workers. | Sanitation facilities, maintaining hygienic condition at the project site to avoid health problems, safe drinking water, PPEs, first aid room with first aid kit & welfare facilities as per the Gujarat Building & Other Construction Workers Rules. |
| 27. | Documents related to land possession | Village form no. 7/12 submitted by them shows that the agricultural land is in the name of applicant & others. Copy of application made for obtaining N.A permission has been submitted. |

During the meeting, it was observed by the committee that the fire load of the project has been calculated but the minimum fire water requirement based on the fire load calculated has not been derived by them. Further it was observed that the parking area of 12,261.81 m² proposed by them in basement is actually not available as per the project plan submitted by them. At this the project proponent replied that as per their revised planning, the parking area of 12,261.81 m² is available in the basement. After detailed discussion, it was decided to consider the project after verifying the status of the project through GPCB and only after submission of the following:

1. Minimum fire water requirement for the project based on the fire load calculated and provision of fire water storage tank to be made.
2. Revised project plan/s showing availability of parking area in basement as proposed by them. In case of change in built up area, FSI area of the project due to revised planning, revised Form – 1 & Form – 1A should also be submitted.
3. Permission from the concerned competent authority or authentic supporting documents showing the availability of the proposed FSI to the project.

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| 14. | Wildwoods Resorts & Realities Pvt. Ltd. | R.S.No.6P1,6P2,6P3,6P4,6P5/P1,7,8/1,8/2,9p1, 11,12p1,13,14,15,16,17,18,19,20,25,138P7,139, 140,141,143p1,143p2,143p3,144,145,146,147, 151p6, 151p5, 161 of village – Patla & R.S. No. 22P1/P2, 22 P2/P2, 22P7/P2, 24P2 of Village – Gadhiyachavand, Ta – Dhari, Dist – Amreli. | Screening / scoping. |
|-----|---|--|----------------------|

M/s. Wildwoods Resorts & Realities Pvt Ltd. applied for obtaining Environmental Clearance vide proposal no. SIA/GJ/NCP/15761/2016 on 06/06/2016 and propose to develop Hospitality Project at Village – Patla & Gadhiyachavand, Ta – Dhari, Dist – Amreli. The total plot area is 171.02.77 ha and total built up area is 74,388.25 m² comprising of cottages, rooms, villas, tents, wellness centre, staff quarters with amenities like multipurpose hall, conservation centre, restaurants, first aid centre, temple etc. As the land area is >50 ha., the project falls in the project activity 8(b) as per the schedule annexed with the EIA Notification – 2006.

Approximate project cost is Rs. 80 crores. It was presented that total green belt area will be 1,33,820.0 m² comprising of 1,27,600.0 m² tree covered area with 5000 trees & 6,220.0 m² lawn covered area. Maximum building height in the proposed project will be 7 m i.e Ground + 1 floor.

Presentation made during the meeting also included the details like location map of the project site, layout plan, resource requirement, waste generation & management, parking facilities etc.

During the meeting it was presented that they will use ground water during the operation phase of the project. The committee observed that the Dhari Taluka of Amreli District falls under Safe category from the ground water availability point of view as per the assessment of Central Ground Water Authority (CGWA), the project proponent was asked to obtain permission from Central Ground Authority for the proposed ground water abstraction and to carry out the compensatory ground water recharge against the quantity of ground water to be withdrawn. Further the project proponent was asked not to carry out any kind of construction activity on the land portions shown as lakes/ponds on the village map.

During the meeting, after detailed discussion, the project proponent was asked to incorporate the following Terms of Reference in the EIA report to be prepared for the study area of 5 km radial distance from the project boundary.

1. Land ownership documents.
2. Location of the project site with reference to the Girnar Wildlife Sanctuary & Girnar Eco-sensitive Zone. Copy of permission obtained from concerned competent authority for setting up of the proposed project, as a part or whole, within the Girnar Eco Sensitive Zone.
3. Status of application made for obtaining clearance from Standing Committee of the National Board for Wildlife.
4. Layout plan/s showing location of buildings, roads, D.G.sets, STP, composting facility, parking space, green belt (tree covered area), common plot, location of percolation wells etc. with different colour codes.
5. Provision of separate entry & exit and adequate margin all around the periphery for easy unobstructed movement of fire tender without reversing.
6. Implementation schedule of the project along with the bar chart.
7. A map of the study area delineating the major topographical features such as land use, drainage, locations of habitats, environmental sensitive areas, major constructions including roads, railways, pipelines, industries if any in the area are to be mentioned.
8. Land use map of the study area based on high resolution satellite imagery delineating the forest, agricultural land, water bodies, settlements and other cultural features. Details of change / creation in land use / land cover due to the proposed project.
9. Project site specific details such as distance of the project site from the nearest (1) Village (2) Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Sanctuary / Reserve Forests shall be included in the rapid EIA report to be prepared covering one season (other than monsoon) data.
10. Details of site topography along with the contour plan of the project area. Details of change in topography of the area due to the project.
11. Scope of the buildings to come up in the project as well as exact details of the residential units, service and commercial units as well as other amenities to come up in the project.
12. Height of the buildings to come up in the project. Break up of FSI, built up area plot wise, block wise plan & area statement.
13. Proposed fixed population as well as floating population including visitors considered for the proposed project.
14. Source of water supply during the construction phase along with the expected quantity of the water requirement. Waste water disposal plan during the construction phase.

15. Detailed fresh water consumption based on activity and area of the project as per the NBC norms. Permission from Central Ground Water Authority for the proposed ground water withdrawal for the project.
16. Domestic waste water disposal plan during operation phase and permission of concerned authority for sewage disposal.
17. Details of the STP with size of each unit, its location on the plan and its adequacy. Measures proposed to prevent odour nuisance due to the STP operation. Provision of dual plumbing for reuse of treated sewage for purposes like flushing, cooling tower make up etc.
18. Details of water conservation measures including provision of low water consuming devices.
19. Application wise break up of treated sewage utilization. Adequacy of open land area available for utilizing treated sewage for plantation / gardening. Suitability of use of treated sewage on the land with respect to the soil characteristic etc. shall be studied and a report in this regard shall be submitted.
20. Details of storm water management. Detailed plan to manage treated sewage in monsoon season. How it will be ensured that treated sewage won't flow outside the premises linked with storm water during high rainy days.
21. Details of soil excavation / filling required for the project along with its quantification based on backup calculations. Details with respect to proposed use / disposal of excavated soil. Plan for management, use and disposal of construction debris including excavated materials during the construction phase.
22. Details of top soil management plan during construction phase. If the topsoil is proposed to be preserved, the details relating to the quantity of topsoil stored, demarcated area on plan where it is stored along with preservation plan is to be given.
23. Engineering controls proposed for dust control including barricading the site during the construction period.
24. Details on impacts of air emission from the vehicles during the construction and operation phases, emission during loading, unloading, transportation and storage of construction materials etc., its impact on surrounding environment & sensitive receptors and mitigation measures thereof should be incorporated in the EIA report.
25. Details of the D.G. sets including fuel, quantity, stack height, location as well as the acoustic measures proposed to abate noise pollution.
26. Map of the study area clearly delineating the location of monitoring stations for air, water, soil and noise, superimposed with location of habitats are to be shown.
27. Details of base line ambient air quality monitoring data of one season other than monsoon for at least five locations in 5 km study area and impact analysis due to the proposed project. Parameters namely PM_{10} , $PM_{2.5}$, NO_2 , SO_x and CO shall be considered. Air quality modelling shall be carried out for prediction of impact of the project on the air quality of the area. The details of the model used and the input parameters used for modelling shall be provided. The air quality contours shall be shown on the location map clearly indicating the location of site, location of sensitive receptors, if any, and habitation. Latest available IMD data shall be utilized.
28. Details of incremental pollution load on the ambient air quality, noise and water quality due to the project.
29. Plan to curb noise likely to be generated from the use of construction equipments like mixers, vibrators

- etc. Impact of project construction/operation on the noise on account of construction equipment, construction/demolition activities and road traffic is to be studied.
30. Details with respect to the quantity of the generation of the garbage / Municipal Solid waste (biodegradable & recyclable waste), Bio Medical waste, electronic waste and mode of its treatment and disposal. Details of composting facility, if any proposed for composting of biodegradable waste.
 31. Details of authorized municipal solid waste collection & disposal facilities, biomedical treatment facilities and hazardous waste disposal facilities in the area should be included. Copy of permission obtained from concerned authority/ies should be submitted. Management and disposal of temporary structures, made during construction phase are to be addressed.
 32. Detailed parking plan showing accommodation of two wheelers and four wheelers, its adequacy for the project and norms adopted for the calculations. The details shall include the parking requirement on the basis of footfalls, as per present GDCR and National Building Code (NBC) guidelines for each individual component of the township. The backup calculations showing the bifurcation of the built up area according to the activity vis-à-vis parking area required shall be furnished. Mark the area of parking on the drawing showing the parking. Also details of visitors parking, whether considered in total parking calculations / provisions or not.
 33. Base line status of the existing traffic, impact on it due to the project activities (prior to construction, during construction and at full site operation), carrying capacity of the existing roads and details of traffic management in and outside the project during construction and operation phase of the project.
 34. Details on wild animal movement, especially lions, in the study area. How it will be ensured that the movement will not be restricted and details of the safety measures for the people residing within the project premises & in surrounding with reference to the wild animal movement in the area.
 35. Base line ecological status along with check list of flora and fauna in the study area and impacts of the project on the same along with mitigation measures. In case of any scheduled fauna, conservation plan should be provided.
 36. Details of existing trees to be protected / preserved / transplanted / removed. Detailed green belt development plan as per the CPCB guidelines, including area of tree plantation, its demarcation on the map, number and types of trees and budget allocation thereof. Also provide the break-up of the greenbelt viz. the tree covered and lawn covered area.
 37. Details of use of eco-friendly building material including fly ash bricks, fly ash paving blocks, RMC, lead free paints, use of PPC in concrete etc.
 38. Perspective view of the building(s) to be constructed along with the materials used such as fibers, glass, etc. on the facades or external walls and the impacts thereof on the nearby buildings / residents / other sensitive receptors due to heat island effect and emissions from the air conditioning systems.
 39. Details of Green Building Concept to be adopted for the project.
 40. Details of provisions to make the project energy efficient and adoption of modes of alternative eco friendly sources of energy, solar water heater, solar street lighting, LED lighting. Measures proposed to comply with the ECBC norms for energy conservation.
 41. Plan for rain water harvesting and ground water recharge revealing that quantity of ground water extraction would be compensated by equivalent or more quantity of rain water recharge, with proper

scientific calculations considering rainfall in the region, catchment area, land / soil characteristics, ground water recharge rate, duration of rain water harvesting etc. Details of provisions of pre-treatment of the rainwater in the case of surface run off is to be harvested. Location of recharge percolation wells on the layout plan.

42. Details of the basic amenities and welfare facilities to be provided to the construction workers to ensure that they do not ruin the existing environment.
43. Details of safety measures proposed for the construction workers including provision of personal protection equipment. Details of registration and provisions to be made by the project proponent to follow Building and other Construction Workers Acts and Rules and undertaking for the same.
44. Plan showing emergency exits as well as location of stair cases, lifts and pathways etc. and compliance to the GDCR and NBC in this regard.
45. Details of first aid / fire fighting and other emergency services to be provided during construction phase and operation phase including the training to be provided to the residential staff of the project as first aid providers, fire fighters etc.
46. Details of disaster management plan during operation phase of the project should also include scenario of natural catastrophe like earth quake, cyclone and floods in addition to other disasters. The plan should include the details of (i) Emergency lighting plan (ii) details of power back up system in the case of emergency (iii) fire fighting arrangements (iv) first aid arrangement (v) Training and Mock drill (vi) Emergency announcement system (vii) Signages (viii) location of emergency stair cases and pathways etc.
47. Detailed Environment Management Plan with respect to various environmental attributes- Water, Air, Noise, Solid wastes including Hazardous Wastes, land etc. of the project both during construction and operation phase and strategy for its implementation with financial outlay. Details of monitoring / supervision cell to monitor environmental aspects during construction phase as well as operation phase including provision of qualified construction safety officer.
48. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
49. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned TORs shall be considered for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006 as well as the model Terms of Reference mentioned in the EIA Manual for "Building, Construction, Townships & Area Development Projects" prepared by Ministry of Environment, Forest & Climate Change. The project shall be appraised on receipt of the EIA report.

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| 15 | Laxmi Chem | Plot no. 153, GIDC-Kalol, Ta.:Kalol, Dist.: Panchmahal. | Appraisal |
| <p>Project / Activity No.: 5(f) Project status: New Chronology of EC Process:</p> <ul style="list-style-type: none"> • This project proposed by M/s: Laxmi Chem (herein after Project Proponent – PP) has submitted | | | |

Application vide their online proposal no. SIA/GJ/IND2/2636/2015 dated 30/09/2015.

- This project was considered in the meeting of the SEAC held on 02/02/2016.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential, Location in GIDC and the details presented during the meeting, after detailed deliberation, the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information vide their online proposal no. SIA/GJ/IND2/53956/2016 dated 20/05/2016.

Project / Activity Details:

This is a new unit proposes the manufacturing of Textile Auxiliary Chemicals like Textle binder, Wetting & Dispersing agents, Flock Binder and Paint Binder as tabulated below:

| Sr. no. | Name of the Products | Quantity MT/Month |
|-----------------------------|-----------------------------|-------------------|
| Various Auxiliary Chemicals | | |
| 1 | Textile Binder | 158 |
| 2 | Wetting & Dispersing Agents | 50 |
| 3 | Flock Binder | 50 |
| 4 | Paint Binder | 75 |
| Total | | 333 |

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 903.67 sq. m & unit has proposed 100 sq. m area for the green belt development/Tree plantation. Proposed project plot no. - 153 admeasuring 903.67 m2 was transferred to M/s. Vishal Plastage by GIDC , effective from 27/3/90. M/s. Vishal Plastage rented the plot no. 153 to M/s. Laxmi Chem. Rent Agreement is made between M/s. Laxmi Chem and M/s. Vishal Plastage for 5 year from 1-04-2015. Expected project cost is Rs. 0.19 Crores. Total water consumption for proposed project will be 10 KL/day (0.50 KL for Domestic, 0.60 KL for Gardening and 8.90 KL for Cooling) which will be sourced from GIDC water supply. There will be no generation of Industrial waste water from the proposed project activities. Domestic waste water (0.40 KL/day) will be disposed off into soak pit system. Unit has proposed one HAG and one DG set (65 KVA as stand-by facility. LDO (5 Lit./hr) will be used as a fuel for HAG and HSD (8 Lit./hr) will be used as a fuel for DG set. Adequate stack height will be provided for HAG and DG set. No process gas emission is envisaged. Discarded barrels / containers / bags / liners (0.02 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (0.5 MT /Year) will be sold only to the registered recyclers.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the storage of various chemicals like Ethyl Acrylate, Butyl Acrylate, Styrene Monomer, MetylMetha Acrylate, PP informed that these raw materials will be stored in Barrels only. No storage tanks will be required to store any of the raw materials. Committee observed that there is no generation of waste

water from the manufacturing process as well as from the utilities & no process gaseous emission. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

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| 16 | Grasim Industries Ltd. | Plot No:1, GIDC Industrial Estate, Vilayat, Dist.: Bharuch | Appraisal |
|----|------------------------|---|-----------|

Project / Activity No.: 5(f), 4 (d)

Project status: Expansion

Chronology of EC Process:

- This project proposed by M/s: Grasim Industries Ltd. (herein after Project Proponent – PP) has submitted Application vide their online proposal SIA/GJ/IND2/2338/2015 dated 19/09/2015.
- The project was considered for TOR finalization in the meeting of the SEAC held on 27/11/2015.
- EIA Report prepared by M/s: Anand Consultants, Ahmedabad was submitted by project proponent vide e their online proposal no. SIA/GJ/IND2/12124/2015 dated 19/05/2016.

Project / Activity Details:

This is an existing new unit proposes for expansion as tabulated below:

| Sr. No. | Name of Product | Production Capacity (MT/Annum) | | |
|---------|--|----------------------------------|----------------------------------|-----------------------------------|
| | | <i>Existing</i> (a) | <i>Proposed</i> (b) | <i>Total</i> (a+b) |
| | Chlorinated Paraffin Wax | 36,500 | 33,500 | 70,000 |
| 2 | Caustic Soda Lye | 219,000 | 146,000 | 365,000 |
| 3 | Poly Aluminum Chloride | 146,000 | 104,000 | 250,000 |
| 4 | Aluminum Chloride | 14,600 | 10,400 | 25,000 |
| 5 | Stable Bleaching Powder | 36,500 | 24,500 | 61,000 |
| 6 | Hydrogen | 61,320,000 (Nm ³) | 40,880,000 (Nm ³) | 102,200,000 (Nm ³) |
| 7 | Liquid Chlorine /Sodium Hypochlorite / Hdrochloric Acid | 197,100 | 131,400 | 328,500 |

The project falls under Category B of project activity 5(f), 4 (d) & 1(d) as per the schedule of EIA Notification 2006.

This unit has an existing unit for manufacturing of Viscose Staple Fiber, Chlor-Alkali, Synthetic Organic

Chemicals, EPOXY-ECH plant and Captive Power plant. Now unit has proposed to increase the production capacity of Synthetic Organic Chemicals, Chlor -Alkali & associated products. Proposed expansion will be carried out within the existing premises of M/s. Grasim Industries Pvt. Ltd. (Chemical Division) and no land will be procured for the proposed expansion. Total investment for the proposed expansion will be 282 Crores. Total cost of the project is INR 282 Crores for the proposed expansion. Out of which INR 12.64 Crores will be earmarked towards environmental protection measures and INR 11.52 Crores will be invested towards recurring cost. Fresh water requirement for the proposed project will be 2200 KL/day and it will be met through GIDC water supply only. Total industrial waste water generation for proposed expansion will be 400 KL/day. Unit will treat the additional effluent in their existing ETP having capacity 35 MLD comprises of primary & secondary treatment plants. Additional domestic waste water (40 KL/day) will be treated in existing STP (Capacity 140 m³/day) and treated sewage will be used for gardening-plantation within premises. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, treated sewage (40 KL/day) will be discharged with industrial effluent after conforming the GPCB/CPCB/MoEF&CC norms. The excess steam requirement (100 MT/day) will be met by generating the same with clean fuel i.e. Hydrogen at the rate of 30000 Nm³ per day in a 10 ton/hour and 10 kg/cm² capacity of hydrogen boiler.

Process emission will be controlled with the air pollution control equipments (APCE) as mentioned below. (a) Sodium Hypo stack of Caustic Plant- Alkali scrubber for control of Cl₂. (b) HCl stack-1 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl. (c) HCl stack-2 of Caustic Plant - Water scrubber having bubble cap tray absorption system for control of HCl. (d) Poly Aluminum Chloride Liquid – Water scrubber system for control of HCl & Cl₂. (e) Poly Aluminum Chloride Powder – 3 stage Water scrubber system for control of HCl & Cl₂. (f) Chlorinated paraffin Plant – Alkali Scrubbing system for control of HCl & Cl₂. (g) Aluminium Chloride - Alkali Scrubbing system for control of HCl & Cl₂. (h) Staple Bleaching Powder - Alkali Scrubbing system for control of HCl & Cl₂.

Hazardous waste details are as under: ETP waste (17 MT/Annum), Brine/ process Sludge (6066 MT/Annum), Spent Resin (0.33 MT/Annum) & Spent carbon from filters (0.33 MT/Annum) will be disposed off at the nearby common TSDF. Discarded barrels/containers(1680 no.s/Annum) & Discarded bags / liners (25 MT/Annum) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (100 KL/Annum) will be sold only to the registered recyclers.

Observations/Discussions:

Technical presentation during the meeting included the Point wise compliance including technical details. The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic. The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period October 2015 to December 2015. Ambient Air Quality monitoring was carried out for PM₁₀, PM_{2.5}, SO₂, NO_x, VOC, Cl₂ and HCl at six locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been

computed using AERMOD model. The resultant concentrations are within the NAAQS. During the meeting, technical presentation made during the meeting by project proponent. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios are incorporated in EIA report. During meeting, PP requested to eliminate the power plant from the proposal. Upon asking about the said removal of power plant, PP informed that they are running the Chlor-Alkali plant with the power of 96 MW power plant and also some power from GEB. They will increase the capacity of their Chlor-Alkali plant and its value added products in the first phase by purchasing the power from GEB or other source. Further they informed that the configuration of Power plant is under evaluation for using other higher GCV coal combinations with upgraded technology to optimize resource consumptions through efficiency improvements and for evaluating the water / air cooled condensers for reduction of water consumption. PP assured that, once the configuration is finalized covering the water and fuel aspects, they will again apply for the environmental clearance for the expansion of power generation capacity. After detailed deliberation, Committee agreed upon the request for exclusion of power plant. PP submitted revised Form-1, PFR and revised EIA report during presentation, which was considered for appraisal. Committee noted that there is a reduction in pollution potential due to removal of proposed power plant. PP has submitted relevant details in the revised form-I. Regarding expansion project, compliance status as per the MoEF&CC Circular vide dated 20/10/2009 & 30/05/2012 is as under: PP has submitted compliance status of existing unit as per the TOR no. 47 to 51. Copy of CCA & its compliance, Copy of EC and its compliance, copy of SCN and its compliance status is submitted. Unit has submitted EC compliance report to MoEF&CC, Bhopal & SEIAA, Gujarat. Analysis reports of GPCB are submitted. There is no court case pending against this unit. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

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| 17 | Anagha Chem Pvt. Ltd | Dahej GIDC Estate, Phase- III,D/2/CH- 318 Vagra, Bharuch | Screening & Scoping |
|----|----------------------|---|------------------------|

Project / Activity No.: 5(f)

- M/s: Anagha Chem Pvt. Ltd (herein after Project Proponent – PP) has submitted online proposal vide no. SIA/GJ/IND2/11094/2015 dated 16/04/2016 for EC amendment.

Project status: Existing

Project / Activity Details:

This is an existing Specialty Chemical manufacturing unit which was accorded Environmental Clearance vide letter no. SEIAA/GUJ/EC/5(f)/93/2015 dated 02/03/2015. Environmental Clearance was granted with a condition to use Natural gas – 240 SCM/day for proposed steam boiler (Capacity 300 Kg/hr) shall be used as fuel in the proposed Boiler. The project proponent vide their application requested for amendment in Environmental Clearance order dated 02/03/2015 with respect to the change in capacity of the Boiler and change in type of fuel from Natural gas to Briquettes of Bio-Coal. The proposal was considered during the meeting and it was presented that the EC was granted with Natural gas based Boiler. Now, they intend to change fuel from Natural gas to Bio-Fuel and to change

capacity of the Boiler. While discussing about the justification for change in fuel and capacity of the Boiler, PP informed that the Natural gas pipeline is not available in area. PP could not justify properly about the change in capacity of the Boiler. Total fuel (Bio-Coal) consumption for the 3 TPH Boiler will be 600 Kg/hr. PP has proposed MDC followed by Bag filter as APCM. After detailed discussion on the matter, It was decided to consider the project only after submission of the following:

1. Detailed justification for proposed change in fuel along with the supporting documents.
2. Technical Justification for change in capacity of the Boiler from 0.3 TPH to 3 TPH.
3. Give above mentioned justification with regard to earlier EIA report.
4. Specific details on (i) Type, quantity and quality (CV, Sulphur content, Ash content, etc,) of coal to be used (iii) Flue gas emission details (iv) Air pollution Control Measures along with its adequacy to achieve the GPCB Norms. (v) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it. (Attach copy of earlier Form-1 also).
5. Existing base line status of ambient air quality and its comparison with ambient air quality results mentioned in previous EIA Report for assessing change in ambient air quality.
6. Prediction of likely impacts on ambient air quality due to change of fuel by use of modeling. Air quality modeling to be carried out considering the worst case scenario partial and complete failure of the APCM. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map.
7. Technical details of APCM along with its adequacy, details of its operational controls with DCS, system for online monitoring of the pollutants from the stack etc. Details of provisions to be kept in APCM to ensure that in any case the air emission does not cross the GPCB norms including preventive maintenance, failure / tripping control system, guarantee from the APCM supplier, alternative arrangements in case of the failure of the APCM etc. Give line diagram of APCM.
8. Fly ash management plan and copies of MOU / agreements done with actual consumers regarding utilization of fly ash & bottom ash etc. should also be incorporated.
9. Compliance status as per the MoEF&CC Circular vide dated 20/10/2009 & 30/05/2012 regarding expansion project. Also include inspection reports of GPCB for last two years.

| | | | |
|----|----------------|--|-----------|
| 18 | Sun Industries | Shed No:C-1/6,GIDC-Antalla, Billimora, Gandvi, Navsari | Appraisal |
|----|----------------|--|-----------|

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- M/s: Sun Industries (herein after Project Proponent – PP) submitted Application vide their letter dated 22/09/2014.
- This project was considered in the meeting of the SEAC held on 08/12/2014.
- During the meeting, the project proponent requested to consider the project as B2 category as

there is a zero discharge unit, no process emission and location of the unit. Looking to the low pollution potential of the unit and location within the GIDC Antalia, after deliberation on various aspects, the the project was categorised as B2 category project and the additional information was sought for appraisal of the project.

- The project proponent submitted the additional information vide their letter dated 14/08/2015.
- PP was called for appraisal on 29/09/2015.
- During the SEAC meeting dated 29/09/2015, technical presentation made during the meeting also covered the point wise reply of additional information sought. During the meeting on asking about management of spent sulphuric acid, PP informed that spent acid (40-45%) and waste water generated from the manufacturing of Fast Scarlet G base will be reused for manufacturing of Magnesium sulphate within their own premises. However, PP could not reply whether the reuse of 40-45% spent acid and waste water will be feasible for manufacturing of MgSO₄ or not. Committee asked to submit complete details of qualitative & quantitative analysis of spent acid and waste water with feasibility report to manufacture MgSO₄ and the details of end use & market demand of MgSO₄. Committee noted that the green belt proposed is very less and asked to submit detailed plan for green belt development. After detailed deliberations the Committee sought following additional information for further consideration of the proposal: (1) Detailed justification about quantity to be generated of ETP waste (30 MT/Year). (2) Complete mass balance for manufacturing of MgSO₄ with qualitative & quantitative analysis of raw materials – Spent acid and process effluent Give feasibility report for reuse of spent acid and raw effluent for manufacturing of by-product MgSO₄. Also give end use of MgSO₄ and name & address of actual users along with copies of MOU / agreements done with actual consumers regarding utilization of by-product shall be incorporated. (3) Provision of emergency storage tanks for Sulphuric Acid and Liq. Ammonia. (4) Commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas within GIDC and elsewhere. (5) Membership certificate of nearby TSDF site.

Project / Activity Details:

This is a new unit proposes manufacturing of Dyes:

| Sr. no. | Product Name | Quantity MT/Mont |
|---------|----------------------|---------------------|
| 1. | Fast Scarlet G base | 10 |
| 2. | Fast Orange GC Base | 10 |
| 3. | Fast Yellow GC Base | 10 |
| 4. | Fast Scarlet RC Base | 5 |

The project falls under Category B of project activity 5(f) as per the EIA Notification 2006.

A plot of 703 sq.m area has been acquired for this project. Unit has proposed 25 sq. m land for green

belt development. Total cost of the project is Rs.50 Lacs. Total fresh water consumption for the proposed project will be 2.25 KL/Day which will be sourced from GIDC water supply. Source of waste water generation is mainly from process, washings & utilities. Total industrial waste water generation will be 0.21 KL/day, which will be evaporated after primary treatment to achieve zero discharge. Spent acid (1.87 MT/day) and process effluent (1.9 KL/day) to be generated from manufacturing of Fast Scarlet G Base will be used for manufacturing of By-Product MgSO₄. There will be no generation of process effluent from remaining products. Capacity of the evaporator will be 50 liters/hr. Electricity will be for evaporator. There will be no flue gas emission and no process gaseous emission from the manufacturing activity. Hazardous waste generated from the manufacturing activity will be ETP sludge & Evaporation residue (30 MT/Year), Discarded plastic bags/drums (90 MT/year), Process in-organic waste (440 MT/year) & used oil (0.02 MT/year). Unit has proposed to manufacture magnesium sulphate by using spent acid (650 MT/Year) and process effluent generated from the manufacturing process.

Observations & Discussions:

Committee observed that PP has submitted point wise reply of additional details sought. PP mentioned that quantity of ETP waste is 3 MT/Year. Management of spent acid and process effluent was discussed in detail. Committee was not convinced regarding the management of spent acid and process effluent as the proposal is to convert it into hazardous waste instead of converting into valuable products. PP has proposed to provide emergency storage tanks for Sulphuric Acid (20 KL) and Liq. Ammonia (15 KL). A letter from Gram Panchayat – Antaliya regarding permission of tree plantation in 230 sq. m of government land is submitted. PP mentioned that they will obtain membership certificate of nearby TSDF site after getting environmental clearance. After detailed deliberations the Committee sought following additional information for further consideration of the proposal:

1. Complete mass balance for manufacturing of valuable product with qualitative & quantitative analysis of raw materials – Spent acid and process effluent. Give feasibility report for reuse of spent acid and raw effluent for manufacturing of valuable by-product. Also give end use of by-product and name & address of actual users along with copies of MOU / agreements done with actual consumers regarding utilization of by-product shall be incorporated.
2. Revised Form-1 & PFR with relevant changes in context to earlier submitted Form-1 & PFR.

| | | | |
|----|--|--|-----------|
| 19 | Robin Dyes And Intermediates Pvt. Ltd. | Plot No:810/2, Sachin GIDC Estare, Surat | Appraisal |
|----|--|--|-----------|

Project / Activity No.: 5(f)

Project status: Expansion

Chronology of EC Process:

- This project proposed by M/s: Robin dyes and intermediates private limited (herein after Project Proponent – PP) has submitted an application vide their letter dated 09/02/2015.
- The project proponent was called for brief presentation and discussion in the meeting of SEAC held on 19/05/2015. During the meeting held on 19/05/2015, certain additional TOR was

prescribed for the EIA study to be done covering 5 Km of study area.

- EIA Report prepared by M/s: Aqua-Air Environmental Engineers Pvt. Ltd., Surat was submitted by project proponent vide online proposal no. SIA/GJ/IND2/5460/2015 dated 30/12/2015.
- PP was called upon for appraisal in the SEAC meeting dated 03/02/2016.
- Technical presentation during the meeting included the Point wise ToR compliance. The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic. The baseline environmental study has been conducted for the study area of 5 km radial distance from project site for the period March 2015 to May 2015. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, O3, VOC and NH3 at eight locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using ISCST – 3 model. The resultant concentrations are within the NAAQS. During the meeting, Committee was not convinced about the effluent concentration and its stage wise reduction. Unit has proposed ETP comprises of primary ETP followed by Advanced Oxidation (Hydrodynamic Cavitation). The treatment methodology was discussed in detail and PP was asked to submit details of treatment technology and its performance assurance. It was observed that the CETP certificate does not show the type of effluent stream to be received by CETP. On asking about spent acid management, PP could not reply satisfactorily. As per EIA report diluted Sulphuric Acid generated from the manufacturing process will be reused in process again. Committee noted that the exact quantity of spent acid generation and its management is not properly addressed. Project proponent was asked to remove some products having high pollution potential and submit the revised proposal with sound environment management plan (EMP). After detailed deliberations the Committee sought following additional information for further consideration of the proposal: (1) Technical details of Hydro dynamic cavitation technology. Working principle, Process features and Chemistry of this technology. Stage wise removal of COD and other parameters for waste water to be treated for proposed project considering worst case scenario. Agreement and assurance from the technology supplier to ensure that the technology is suitable for waste water to be generated from the proposed project. (2) List of products to be removed from existing list of products with proper justification. (3) Product wise waste water generation in KL/day (Dilute stream, concentrated stream, spent acid generation etc.), its Characteristics and its disposal method. (4) Clarification regarding spent acid management. Whether the spent acid be treated in ETP or reuse in process. (5) Latest certificate from CETP with quantity and quality to be accepted by CETP. (6) An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009. (7) Summary & Conclusion as per the generic structure given in Appendix III A of the EIA Notification 2006. (8) Latest status of stay order from Hon'ble Gujarat High Court against the implementation of the NABET accreditation or copy of Certificate of accreditation issued by the NABET, QCI to the environmental consultant.

- PP has submitted point wise reply of additional details sought viide their letter on 29/04/2016.

Project / Activity Details:

This is an existing unit engaged in Dyes intermediates and now proposes for expansion and addition of new products as below:

| SR. | Name of the Products | Existing Capacity (MT/Month) | Total after expansion |
|-----|----------------------|------------------------------|-----------------------|
| 1 | G-Salt | 7.5 | 35 |
| 2 | R-Salt | - | 15 |
| 3 | Amido G-Acid | - | 35 |
| 4 | K-Acid | - | 30 |
| | Total | 7.5 | 115 |

The project falls under Category B of project activity 5(f) as per the EIA Notification 2006.

Total plot area is 5000 sq. m & unit has proposed 1000 sq m area for the green belt development/Tree plantation The total cost of the proposed expansion is 2 Crores. Total water consumption after proposed expansion will be 6.5 KL/day to 36.3 KL/day (28.3 KL Industrial + 4 KL Gardening + 4 KL Domestic). Fresh water will be sourced from GIDC water supply. Effluent – 2.5 KL/Day - Generated from the Process, Boiler and washing, which is sent to CETP of M/s. GECL after primary treatment in existing ETP. Total industrial effluent generation will be increased from 2.5 KL/day to 16.8 KL/day. Unit has proposed ETP having Primary, Hydrodynamic cavitation base treatment (Advanced Oxidation-Chlorine). Effluent will be treated in proposed ETP and sent to CETP of GECL, Sachin for further treatment and final disposal or it will be subjected to MEE within the factory premises. Domestic waste water will be disposed off into septic tank/soak pit system. At present unit is a member of CETP of Sachin. At present wood (2 MT/Month) is used as fuel for one steam boiler and one TFH (2 Lac Kcal/hr). Unit has provided one DG set (125 KVA). Briquettes of Bio coal/ Agro waste (60 MT/Month) will be used as a fuel for proposed TFH (6 Lac Kcal/hr) and one HAG. Existing TFH will be removed after proposed expansion. MDC is proposed as APCM for Boiler and HAG. Two stage Alkali scrubber is provided for Sulphonator and Drawing vessels. Unit has proposed additional alkali scrubbing system for additional Sulphonator and Drawing vessels for control of SO₂ gas. Existing vents will be used for proposed expansion. Hence, there will be no additional process stacks for proposed expansion. Hazardous waste to be generated are ETP sludge (10 MT/Year), Gypsum (500 MT/Month), Dilute Sulphuric acid (285 MT/Month), Used Oil (0.250 MT/Year) and Discarded containers/Bags/Liners (5 MT/Year). ETP waste & MEE Salt will be disposed off at the nearby common TSDF. Gypsum sludge will be disposed off at the common TSDF site or sent to Cement manufacturing units for its reuse. Dilute sulphuric acid will be reused within premises. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers after decontamination. Used oil will be sold only to the registered recyclers.

Observations/Discussions:

Technical details of Hydro dynamic cavitation technology is submitted, however, the details is incomplete with respect to supplier of the technology and assurance from the supplier for waste water

to be generated from the proposed project. Unit has removed Gamma Acid from the product list. Product wise waste water generation in KL/day (Dilute stream, concentrated stream, spent acid generation etc.), its Characteristics and its disposal method is submitted. Spent acid generated from the G-salt and K-acid will be reused in manufacturing of R- salt and Amido G Salt respectively. Acidic waste water generated from the Amido G salt and R-salt will be neutralised in ETP and treated. Unit has submitted membership certificate of CETP-GECL, Sachin vide letter dated 02/04/2016 of CETP-GECL, Sachin. An undertaking by the Project Proponent and Consultant regarding EIA report are submitted. Summary & Conclusion as per the generic structure given in Appendix III A of the EIA Notification 2006 is also submitted. PP mentioned that there is a stay order by Hon'ble Gujarat High Court on amendment to EIA Notification 2006 dated 03/03/2016 regarding implementation of the NABET accreditation. After detailed discussion on the matter, It was decided to consider the project only after submission of the following:

1. Agreement and assurance from the technology supplier to ensure that the said technology (Hydro dynamic cavitation) is suitable for waste water to be generated from the proposed project.
2. Revised Form-1 & PFR with relevant changes as proposed.
3. Compliance status as per the MoEF&CC Circular vide dated 20/10/2009 & 30/05/2012 regarding expansion project. Also include inspection reports of GPCB for last two years.

| | | | |
|----|------------|--|-----------|
| 20 | BMS Chemie | Plot No:47/1/16 & 17, GIDC Nandesari, Vadodara | Appraisal |
|----|------------|--|-----------|

Project / Activity No.: 5(f)

Project status: Expansion

Chronology of EC Process:

- This project proposed by M/s: BMS Chemie (herein after Project Proponent – PP) has submitted an application vide their letter dated 21/08/2013.
- The project proponent was called for brief presentation and discussion in the meeting of SEAC held on 31/07/2014. During the meeting held on 31/07/2014, certain additional TOR was prescribed for the EIA study to be done covering 5 Km of study area.
- EIA Report prepared by M/s: Prakruti Environmental Engineers, Vadodara was submitted by project proponent vide online proposal no. SIA/GJ/IND2/6544/2013 dated 07/01/2016.
- Project proponent was called for appraisal on 25/02/2016.
- During the SEAC meeting dated 25/02/2016, technical presentation during the meeting included the Point wise ToR compliance. The baseline environmental quality has been assessed for various components of the environment viz. air, noise, water, biological and socioeconomic The baseline environmental study has been conducted for the study area of 5 km radial distance from project site for the period November 2014 to January 2015. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2 and NOx at seven locations, including the project site. Committee noted that PP has not covered project specific parameters like HCl, HBr, CL2 etc. for baseline study of AAQ. While reviewing the EIA report, Committee observed that the ToR related to

Solvent recovery. Committee observed discrepancy in solvent management details. After deliberation on various aspects, the Committee sought following additional information for further consideration of the proposal: (1) Compliance of TOR no. 13, 14, 20. (2) Full Chemical Names of RM & Products (D Pure 163, D Pure 170, R Modi 2015, D Pure 163, D Pure 170, R Modi 2015 etc.). (3) Mitigation measures proposed for HBR generated from the manufacturing process of BENZBROMARONE: (3, 5 Dibromo-4-Hydroxyphenyl) (2-Ethyl-3-Benzofuranyl) Methanone (4) An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009. (5) Current status of stay order from Hon'ble Gujarat High Court against the implementation of the NABET accreditation or copy of Certificate of accreditation issued by the NABET, QCI to the environmental consultant.

Project / Activity Details:

It is an existing unit proposing the expansion by augmentation in production capacity of four of the existing products as well as by manufacturing of four new products. Two of the existing products will not be manufactured after the proposed expansion. This is an existing unit established since 1990 intending to expand the production capacities of its existing product viz. Oxyclozanide, Benz Bromarone and Para Ditoluoyl Tartaric Acid and to manufacture new products viz. Oxalamine Citrate, Dibenzoyl Tartaric Acid, 2-Acetylamino-5- mercapto-1,2,4thiadiazole, Water Based Polymethane Resins (D Pure 163, D Pure 170) & R Modi 2015) and Solvent Based Resin (1K PU & RSC -2012). The industry proposes to discontinue production of Trichloro Salicylic Acid and N-Pentyl Trichlorosalicylate and further proposes to stop synthesis of Oxyclozanide and manufacture the same by purification only. Details of production capacity after the proposed expansion is tabulated as below.

| Sr. no. | Name of Products | Production (MT/Month) | | |
|--|--|-----------------------|----------|-------|
| | | Existing | Proposed | Total |
| 1. | Trichloro Salicylic Acid | 1.5 | -1.5 | 00 |
| 2. | N-Pentyl Trichlorosalicylate | 0.1 | -0.1 | 00 |
| 3. | Organic Compounds | | | |
| | Oxyclozanide (by purification)* | 1.0 | 0.25 | 1.5 |
| | Benz – Bromarone ((3, 5 Dibromo-4-Hydroxyphenyl) (2-Ethyl-3-Benzofuranyl) | 0.25 | | |
| | Oxalamine Citrate | 0.00 | | |
| 4. | Tartaric Acid Derivatives | | | |
| | Para Ditoluoyl Tartaric Acid | 1.0 | 13 | 14 |
| | Dibenzoyl Tartaric Acid | 0.0 | | |
| 5. | 2-Acetylamino-5- mercapto-1,3,4-thiadiazole | 0.0 | 1.5 | |
| 6. | Water Based Polymethane Resins (D Pure 163, D Pure 170, R Modi 2015, others) | 0.0 | 20 | 20 |
| 7. | Solvent Based Resins (1K PU, RSC - 2012, others) | 0.0 | 16 | 16 |
| * The existing process for manufacturing Oxyclozanide is changed from synthesis to Purification. | | | | |

The production activity falls in the project activity 5(f) as per the schedule of EIA Notification, 2006.

This is an expansion project and will take place within the existing premises. The industry has valid consents from the Gujarat Pollution Control Board (AWH- 47511 valid upto 25/03/2017).

No additional land is required for the proposed expansion. Plot area is approx.1,318 sq.m. Estimated cost of proposed expansion is Rs. 19.1 Lacs. Wastewater generation after the expansion will be increase from 11.5 KLD to 20 KLD i.e additional 8.5 KLD. Fresh water requirement will be increased from 32.2 KLD to 48 KLD. (Additional 24.8 KLD). Additional water requirement will be supplied by the GIDC. Industrial wastewater generation will be increased from 11.5 KLD to 20 KLD (Additional 8.5 KLD). Unit has proposed primary ETP with fenton treatment process followed by tertiary treatment units. Industry proposes to discharge total effluent load of 20 KLD to CETP after treatment in proposed ETP within premises. Industry has obtained additional load acceptance letter from CETP. Domestic waste water (1 KL/day) will be disposed off into Soak pit –Septic tank system.

Consumption of natural gas 5 SCM/hr in existing steam boiler (cap. 0.8 TPH) will remain same. Unit is having one DG set with capacity 50 KVA as standby facility to be used in case of power failure.

Emission of CL₂, HCl & SO₂ is envisaged from the manufacturing process and 2 nos. of primary water scrubbers followed by one secondary caustic scrubber are proposed as Air Pollution Control Measures.

The industry has installed scrubbing system consisting of 2 series of primary and secondary alkali scrubbers. Alkali scrubbers are installed with graohite condensers to cool circulating alkali solution.

The existing scrubbers will be used for the proposed expansion. ETP Sludge (45 MT/Year), Distillation residue (5 MT/Year), Spent Carbon (0.5 MT/Year), Discarded bags/containers/barrels/liners (300 no.s/Year), Spent solvent (65 MT/Year) and used oil (0.2 MT/Year) will be generated as hazardous wastes. ETP waste will be disposed off at the nearby common TSDF.

Distillation residue and spent carbon will be disposed off at the CHWIF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers. Spent solvent will be sold to the authorized solvent re-refiners.

Observations/Discussions:

PP has submitted point wise reply of additional details sought during SEAC meeting dated 25/02/2016. Committee observed that PP has HCl & Cl₂ parameters with regards to ToR no. 13 & 14, however, they have so far not covered Br₂ & HBr. Parameter. Solvent recovery system is also not addressed properly in their reply. Full Chemical Names of RM & Products (D Pure 163, D Pure 170, R Modi 2015, D Pure 163, D Pure 170, R Modi 2015 etc. has been submitted. Mitigation measures proposed for HBR generated from the manufacturing process of BENZBROMARONE: (3, 5 Dibromo-4-Hydroxyphenyl) (2-Ethyl-3-Benzofuranyl) Methanone is explained. An undertaking by the Project Proponent on the ownership of the EIA report and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct is submitted. PP submitted that there is a stay order by Hon'ble Gujarat High Court on amendment to EIA Notification 2006 dated 03/03/2016 regarding implementation of the NABET accreditation. After detailed discussion on the matter, It was decided to consider the project only after submission of the following:

1. Compliance of ToR no. 13 & 14 with respect to project specific parameters HBr and Br₂.
2. Solvent management as per ToR no. 20 including solvent recovery system (Schematic diagram of

| | | | | |
|--|--|---|--------------------|--------------------------|
| the system). | | | | |
| 21 | Jeevan Chemicals | Plot No:C-1,B-1119/1,1913, GIDC Estate, Sarigam, Ta.: Umbergaon, Dist.: Valsad. | TOR Amendment | |
| <p>This project was issued TOR on the 265th meeting of SEAC dated 17/11/2015 and was communicated to project proponent vide letter no. EIA-10-2015-7237-E-94 dated 21/01/2016.</p> <p>Project proponent has requested vide their online proposal no. SIA/GJ/IND2/11689/2015 DATED 14/05/2016 for amendment in TOR. PP has submitted Revised Form-1 and relevant details. The case was considered for amendment in ToR.</p> <p>During presentation, PP informed that they have made mistakes in mentioning utilities like Boiler & TFH and its capacity in the earlier submitted Form-1, PFR and subsequent TOR. Committee noted that there is a change in steam requirement and heat requirement and its associated fuel consumption. There is no change in product items and its quantity, waste water generation quantity & hazardous waste quantity. Based on the information furnished by the project proponent and presentation made during the meeting, Committee unanimously decided for the amendment sought and now project/activity details shall be read as under:</p> <p>Project / Activity Details:</p> <p>This unit is engaged in manufacturing of various surfactant & Agrochemicals formulation and now proposed to manufacture Synthetic Organic Chemicals as tabulated below:</p> | | | | |
| Sr. no. | Product | Existing (MT/Year) | Proposed (MT/Year) | Total Capacity (MT/Year) |
| 1. | Surface Active Agents (Jeemol Brand) | 22980 | 00 | 22980 |
| 2. | Varous Agrochemicals formulation by mixing and blending process A. WP (Wettable Powder) B. EC (Emulsifiable Concentrate) C. WDG (Water Dispersible Granule) D. SC (Suspension Concentrate) | 90600 | 00 | 90600 |
| 3. | ACETONITRILE | -- | 50 | 50 |
| 4. | LAURONITRILE | -- | 50 | 50 |
| 5. | DECANE NITRILE | -- | 50 | 50 |
| 6. | UNDECANE NITRILE | -- | 50 | 50 |
| 7. | 2 CYANOPHENOL | -- | 50 | 50 |
| 8. | 4 CYANOPHENOL | -- | 50 | 50 |

| | | | | |
|-------|------------------------------|-------------------|-----------------|-----------------|
| 9. | JEEMOX-578 | -- | 50 | 50 |
| 10. | JEEMOX PNR | -- | 50 | 50 |
| 11. | PHPO | -- | 50 | 50 |
| 12. | PHENYL GLYCIDYL ETHER | -- | 50 | 50 |
| 13. | O-CRESYL GLYCIDYL ETHER | -- | 50 | 50 |
| 14. | BUTYL GLYCIDYL ETHER | -- | 50 | 50 |
| 15. | POLY GLYCEROL GLYCIDYL ETHER | -- | 50 | 50 |
| 16. | DI PEG GLYCIDYL ETHER | -- | 50 | 50 |
| 17. | IPA GLYCIDYL ETHER | -- | 50 | 50 |
| 18. | TMBPF | -- | 50 | 50 |
| 19. | TMBAF | -- | 50 | 50 |
| 20. | TMBP | -- | 50 | 50 |
| 21. | 2,4 DHBP | -- | 50 | 50 |
| 22. | BENZOPHENONE 3 | -- | 50 | 50 |
| 23. | BENZOPHENONE 4 | -- | 50 | 50 |
| 24. | TTDP | -- | 50 | 50 |
| 25. | TDP | -- | 50 | 50 |
| 26. | TBCP | -- | 50 | 50 |
| 27. | DPEDP | -- | 50 | 50 |
| 28. | TLP | -- | 50 | 50 |
| 29. | AGDE | -- | 50 | 50 |
| 30. | MALONONITRILE | -- | 50 | 50 |
| 31. | BISPHENOL F | -- | 50 | 50 |
| 32. | BISPHENOL S | -- | 50 | 50 |
| 33. | PENTANE DIOL | -- | 50 | 50 |
| 34. | TRIAZINONE | -- | 50 | 50 |
| Total | | 113580 MT/Year | 1600 MT/Year | 1600 MT/Year |

| | | | | |
|---|------------------------|--|---------------------|--|
| | | [By Formulation] | | & 113580 MT/Year [By Formulation] |
| <p>The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Plot area is approx. 3629 sq.m. Unit has proposed 800 sq. m area for green belt/tree plantation. Estimated cost of proposed expansion is Rs. 1.40 Crores. Fresh water requirement after proposed expansion will be increased from 7 KL/day to 34.5 KL/day (5 KL Domestic, 25.5 KL Industrial & 4 KL Gardening) which will be supplied by the GIDC. Wastewater generation after the expansion will be increased from 2.5 KL/day [industrial - NIL + 2.5 KL domestic] to 14.2 KL/day [10.2 KL industrial + 4 KL domestic]. Domestic waste water (4 KL/day) will be disposed off into septic tank/soak pit system. Unit has proposed segregation of waste water at source as Concentrated waste water stream (0.2 KL/day) and low concentrated stream (10 KL/day). Concentrated waste water will be sent to Multiple Effect Evaporator (MEE) and dilute stream will be treated in ETP comprises of Primary, Secondary and Tertiary treatment plants and after treatment effluent will be sent to CETP-Sarigam for further treatment and sea disposal. Unit has proposed 5 no.s of steam Boilers (0.850 TPH each) and two TFHs (2 Lac Kcal/hr & 10 Lac Kcal/hr). Natural gas (40 SCM/hr for Boilers & 140 SCM/hr for TFH) will be used as fuel for Boiler and TFH. Unit has proposed two stage scrubbing system for process gaseous emissions (HCl) from the reactor. Unit has proposed two DG sets (100 KVA each) as stand-by facility for proposed expansion. HSD (60 Lit./hr) will be used as a fuel for DG sets. Hazardous waste to be generated are ETP waste (1 MT/Month), Discarded containers (200 no.s/Year), Used Oil (500 lit./Year), Organic residue (1.5 MT/Month) and Distillation residue (1 MT/Month) and contaminated organic solvents (1 MT/Month). ETP waste & Iron sludge will be disposed off at the nearby common TSDF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil will be sold only to the registered recyclers.</p> <p>The project shall be appraised on receipt of the final EIA report based on the TOR issued vide letter no. EIA-10-2015-7237-E-94 dated 21/01/2016.</p> <p>Validity of ToR:</p> <ul style="list-style-type: none"> The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 16/11/2018. The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC. | | | | |
| 22 | Softouch Foam Products | Survey No.308, Block No.532, Nr. Shiv Ganga Cold Storage, Dehgam- Modasa Road. Sampa,Dehgam, Gandhinagar | Screening & Scoping | |
| <p>Project / Activity No.: 5(f)</p> <ul style="list-style-type: none"> M/s: Softouch Foam Products (herein after Project Proponent – PP) has submitted application vide | | | | |

their proposal no. SIA/GJ/IND2/15681/2016 dated 01/06/2016.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic organic chemicals as tabulated below:

| Sr. No. | Name of the Product | Quantity |
|---------|---------------------|-------------|
| 1 | Polyurethane Foam | 20 MT/Month |

The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989. During presentation, PP informed that water requirement is 4.21 KL/day. Fuel requirement is NIL and Chemicals to be used are not covered in MAH category. Hence, the proposed product of PU Foam falls under Category B of project activity 5(f) as per the EIA Notification 2006.

Total plot area is 1898 sq. m & unit has proposed 750 sq mtr area for the green belt development/ Tree plantation. Expected project cost is INR. 0.1 Crores. Aerial distance of the nearest residential area of village Sampa is @ 2.75 km. Water requirement for the proposed project will be 4.21 KL/day (0.3 KL for Domestic, 3.75 KL for Gardening, 0.16 KL for Industrial Purpose). Industrial waste water will be NIL. Domestic waste water (0.2 KL/day) will be disposed off into septic tank/soak pit system.

Discarded barrels / containers / bags / liners (500 Nos./year)will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination.

Used oil (3 liters/year) will be sold only to the registered recyclers.

Observations & Discussions:

Presentation made by the proponent included the general information about the project, Location of the project, Layout plan, details of product & raw materials, manufacturing process with process flow diagram, water consumption & wastewater generation, details of solid & hazardous waste, Environment Management Plan etc. On asking about storage and handling details of TDI, PP informed that monthly consumption of TDI is 6 MT and they will store 6 MT of TDI, which is less than the threshold limit for MAH unit under the MSIHC Rules. Further PP assured that they will submit undertaking in this regard. Committee suggested to provide strict engineering controls and personal protective equipments for the workers during handling of TDI. Looking to the small scale of the project, low pollution potential and the details presented during the meeting, after detailed discussion, the project was categorized as B2. Following additional information was sought from the project proponent for appraisal of the project:

1. Land Possession Documents of the proposed site. NA permission documents from the concerned authority.
2. Details of surrounding industrial units within 3 KM radius with details like Name and address of the unit, type and nature of industrial activity etc.
3. Demarcation of proposed project activities in lay out plan. Exact details about infrastructural facilities, plant machineries etc. required for the proposed project.

4. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed project.
5. Project site specific details such as distance of the project site from the nearest (1) Village-Nearest residential area N(2) Water Body: Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary/Eco sensitive zone (8) Aanganwadi/School/College/Institute etc. and likely impact on them due to the proposed project along with the mitigation measures proposed to minimize the likely impact. Give satellite image of 3 KM radius.
6. Legal Undertaking stating that unit is complying the three conditions [i.e. water consumption less than 25 M³/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989] as per the amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014. Give tabular format for comparison of actual storage of hazardous chemicals and threshold limit prescribed in MSIHC Rules, 1989.
7. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
8. Proposed monthly production and monthly consumption of each raw material. Source of raw materials and its mode of transportation.
9. Manufacturing process along with chemical reactions, mass balance for each product. Give exact quantity of raw materials required in MT/Day.
10. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
11. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same for the proposed project.
12. Specific details of (i) Details of the utilities required (ii) Type and quantity of fuel to be used for each utility (iii) Flue gas emission rate from each utility (iv) Air Pollution Control Measures proposed to each of the utility along with its adequacy (v) List the sources of fugitive emission along with its quantification and proposed measures to control it.
13. Specific details of fugitive emission from the unit along with its quantification and proposed measures to control it along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR.
14. Sources of Odour and Proposed odour control measures.
15. Details of measures proposed for noise pollution abatement & its monitoring.
16. Details of management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling and its disposal. How the manual handling of the hazardous wastes will be minimized?
17. Methodology of de-contamination and disposal of discarded containers and its record keeping.

18. Explore the possibilities for co-processing of the Hazardous waste/Solid waste prior to disposal into TSDF/CHWIF.
19. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
20. A detailed EMP including the protection and mitigation measures for preventing impacts on human health and environment as well as detailed monitoring plan with respect to various parameters and responsible head for the environmental management cell and environmental management cell proposed for implementation and monitoring of EMP.
21. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment.
22. A detailed Green Belt Development Program including annual budget, types & number of trees to be planted, area under green belt development [with map]; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the GIDC area and elsewhere.
23. MSDS of all the products and raw materials to be used.
24. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
25. Details of quantity of each hazardous chemical to be stored, Material of Construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals. How the manual handling of the hazardous chemicals will be minimized?
26. Details of the separate isolated storage area for chemicals. Details of fire extinguishers, flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
27. Specific safety details / provisions for various hazardous chemicals and detailed fire control plan for flammable substances.
28. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided to the workers. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical check up of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
29. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
30. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate

power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.

31. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.

32. A tabular chart with index for point-wise compliance of above details.

The project shall be appraised on satisfactory submission of the above.

| | | | |
|----|---------------------------------|---|---------------------|
| 23 | Gujarat Fluorochemicals Limited | Plot No. 12/A , GIDC Estate, Ta.: Vagra, Dist.: Bharuch | Screening & Scoping |
|----|---------------------------------|---|---------------------|

Project / Activity No.: 5(f)

- M/s.: Gujarat Fluorochemicals Limited (herein after Project Proponent – PP) has submitted Application vide their online proposal no. SIA/GJ/IND2/13786/2015 dated 26/05/2015 for amendment in environmental clearance.

Project status: Amendment

Project / Activity Details:

This is an existing unit engaged in specialty chemicals with captive power plant which was accorded Environmental Clearance vide letter no. SEIAA/GUJ/EC/5(f)/45/2012 dated 27/02/2012 and amended vide letter no. SEIAA/GUJ/EC/5(f) & 1 (d)/1717/2015 dated 20/05/2015. Environmental Clearance was granted with a condition to manufacture Products as tabulated below:

| Sr. No. | Product Name | Existing Production Capacity MT/Month | Proposed Production Capacity MT/Month | Total After Proposed Expansion MT/Month |
|-------------------------|-----------------------------------|---------------------------------------|---------------------------------------|---|
| POLYTETRAFLUOROETHYLENE | | | | |
| 01. | Polytetra Fluoro Ethylene (PTFE)# | 1170 | 2070 | 3240 |
| 02. | Chloroform | 6700 | 3390 | 10090 |
| 03. | Methylene Dichloride (MDC) | 6700 | 3390 | 10090 |
| 04. | Gypsum | Nil | 12767 | 12767 |
| 05. | Sulphuric Acid 88% | 475 | 238 | 713 |
| 06. | Hydrochloric Acid (12% ± 1%) | 7765 | 13737 | 21502 |
| 07. | Hydrochloric Acid (31% ± 1%) | 14686 | 25983 | 40669 |
| 08. | Carbon Tetrachloride (CTC)@ | 600 | 840 | 1440 |
| 09. | HFC – 32 (Refrigerant Gas) | Nil | 750 | 750 |

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| | | | | |
|--|------------------------------------|-------|------|-------|
| 10. | Caustic Soda (Dry Basis) | 16895 | Nil | 16895 |
| 11. | Chlorine Dry Basis | 13167 | Nil | 13167 |
| 12. | Hydrogen | 464 | Nil | 464 |
| 13. | Hydrochloric Acid (31 ± 1%) | 357 | Nil | 357 |
| 14. | Sodium hypochlorite (10% chlorine) | 132 | Nil | 132 |
| ADDITIONAL PRODUCTS | | | | |
| 15. | Calcium Chloride 94% | 4750 | Nil | 4750 |
| 16. | Tetra Fluor Ethylene | 170 | 470 | 640 |
| 17. | Hexa Fluoro Propylene | 150 | Nil | 150 |
| 18. | Hexa Fluoro Propylene Oxide | 75 | Nil | 75 |
| 19. | Hepta Fluoro Propane | 75 | 75 | 150 |
| 20. | Tetrafluoro Dimethyl amine | 45 | Nil | 45 |
| 21. | Tetra Fluoro Propanol | 75 | 300 | 375 |
| 22. | Telomer Iodine | 100 | Nil | 100 |
| 23. | Telomer Alcohol | 100 | Nil | 100 |
| 24. | Dilute HF (20 %) | Nil | 1000 | 1000 |
| 25. | Hydrofluosilicic Acid (20%) | Nil | 100 | 100 |
| 26. | High Boiler of Chloromethane | 100 | 100 | 200 |
| 27. | HFC-125 | Nil | 417 | 417 |
| 28. | Anhydrous Potassium Fluoride | Nil | 100 | 100 |
| CAPTIVE POWER PLANT | | | | |
| 29. | Gas based Plant COGEN | 28.5 | Nil | 28.5 |
| 30. | Coal based Plant COGEN | 26.0 | Nil | 26 |
| 31. | Gas based Plant CCGT | 37 | Nil | 37 |
| Note : | | | | |
| # : PTFE by suspension and dispersion grades, including virgin or compounded will be manufactured. | | | | |
| @ : CTC and related phase – out program: | | | | |
| All the CTC will be used for sale for use in approved end use applications. | | | | |
| In case, any excess CTC is still left, the same shall be destroyed in the Thermal Oxidizer | | | | |

| |
|--|
| Set-up or send it outside for incineration (Authorized by the GPCB). |
|--|

The request was considered during the meeting and it was presented that the EC was granted for above mentioned products including PTFE individual products. PP has also obtained CC&A of the GPCB for aforementioned products. PP applied for amendment in EC to include Mono Chloro Difluoro Methane (R22) in the existing product list. PP has submitted revised Form-1 with relevant details. On asking about the need for the proposed change, PP informed that due to sever dumping of PTFE from China market, the production of PTFE at GFL is dropped down considerably. The production of PTFE has come below the viable manufacturing level. Further they emphasised that to sustain their business in present condition the opportunity available to export HCFC – 22 to the customer who shall consume for their internal feed stock consumption.

As per MoEF&CC, there is no restriction for production and sale of R-22 for feed stock purpose under the Montreal protocol. MoEF&CC – Ozone Cell has given No Objection Certificate (NOC) to Directorate General of Foreign Trade (DGFT) to grant licence for export of HCFC – 22 for feed stock use. Proposed activity is to allow them to sell their part of 18000 MTPA of R-22 (HCFC – 22) directly to the market. This 18000 MTPA of R – 22 (HCFC – 22) [45000 MTPA] that they have been allowed to manufactured as an intermediate step for the final manufacture of PTFE (3240 MT/Month). Project proponent was asked to submit existing compliance status and worst case scenarios for proposed change in product mix. After detailed discussion on the matter, Committee sought following additional information for further consideration of the proposal:

1. Detailed manufacturing process of PTFE with mass balance which was submitted during the processing of earlier EC. Copy of earlier EIA report with soft copy in CD.
2. Month wise production data for last two years.
3. Status of the existing Consent to Operate and Authorization accorded by the SPCB. Compliance status of the existing unit with respect to various conditions of CC&A order obtained from the Gujarat Pollution Control Board (GPCB).
4. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
5. Status of submission of half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions of existing Environmental clearance.
6. Compliance status as per the MoEF&CC Circular vide dated 20/10/2009 & 30/05/2012 regarding expansion project. Also include inspection reports of GPCB for last two years.
7. Ensure that there is no increase in pollution load due to proposed change in product mix. Legal undertaking regarding no increase in pollution load.
8. Compliance of the Ozone Depleting Substances (Regulation and Control) Rules, 2000 and its amendment time to time.
9. Copies of NOC/Permissions required from the concern authorities like MoEF&CC – Ozone Cell, Directorate General of Foreign Trade (DGFT) etc.

| | | | |
|----|--------------------------------------|--|---------------------|
| 24 | Megafine Specialty Chemicals Pvt Ltd | Plot No.SPS 13/1, Sarod, Jambusar, Bharuch | Screening & Scoping |
|----|--------------------------------------|--|---------------------|

Project / Activity No.: 5(f)

- M/s: Megafine Specialty Chemicals Pvt. Ltd. (herein after Project Proponent – PP) has submitted application vide their online proposal no. SIA/GJ/IND2/2187/2015 dated 16/09/2015.

Project status: New**Project / Activity Details:**

This is a new unit proposes the manufacturing of Synthetic organic chemicals as tabulated below:

| Sr. No. | Product | Quantity (MT/Month) |
|---------|-------------------------------------|---------------------|
| | | 200 |
| 2 | Pigment Beta Blue 15.4 | 220 |
| 3 | Pigment Beta Blue 15.6 | 12 |
| 4 | CPC Derivatives (Amine Based) | 50 |
| 5 | CPC Derivatives (Phthalimide Based) | 2 |
| | Total | 484 |

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CET from the Board for manufacturing of Pigment Beta Blue 15.3 and Pigment Beta Blue 15.4 which are manufactured by blending process only. Total plot area is 6020 sq m & unit has proposed 1560 sq m area for the green belt development/Tree plantation. Expected project cost is Rs.8.25 Crores. Total water requirement for proposed project will be 208 KL/Day (Industrial – 193 KL/Day + Gardening – 10 KL/Day + Domestic 5 KL/day). Fresh water will be sourced from SEZ Water supply authority. Industrial waste water generation will be 144 KL/day, which will be treated in ETP having Primary, Secondary & Tertiary Treatment Facilities followed by further treatment (RO & MEE). RO permeate water @ 130 KL/day will be reused within the premises and RO reject 14 KLD will be evaporated in proposed MEE. Domestic waste water (4 KL/day) will be disposed off into soak pit system. It is proposed to install one Boiler (7 TPH) and one TFH (10 Lac Kcal/hr). Coal (30 MT/day for Boiler and 4 MT/day for TFH) will be used as fuel. Separate set of MDC followed by Bag filter is proposed as APCM. Unit has proposed one DG set (250 KVA) in which HSD (44 ltrs/hr) will be used as fuel. Bag filters are proposed for control of SPM to be emitted from Spin Flash Dryers (SFD-2 no.s). Two stage scrubbing system will be provided to control process gaseous emission. ETP waste (4.5 MT/Month), MEE salt (6 MT/Month) and Carbon filter waste (0.5 MT/Month) will be disposed off at the Common TSDF site. Discarded barrels / containers / bags / liners (100 Drums/month & 200 Bags/month) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (50 litres/month) will be sold only to the registered recyclers. Distillation Residue (10 MT/Month) will be sent to the CHWIF or cement industries for co-processing. Spent Sulphuric Acid (32%) after achieving concentration it will be sold out to the authorized actual users.

Observations / Discussion:

Technical presentation made during the meeting by project proponent. The project proponent presented that they have already started baseline environmental monitoring from Dec. 2015 and requested to allow them to use the same for the preparation of the EIA report which was agreed to by the committee. During the meeting, acid concentration technology for spent sulphuric acid and its

management was discussed in detail. Committee asked to explore the reuse of concentrated spent acid within premises to convert it into valuable products instead of sending outside, which was agreed to by the project proponent. After deliberation on various aspects, following additional TOR was prescribed for the EIA study covering 5 km radius of the project boundary.

1. Copy of plot holding certificate obtained from Sterling SEZ.
2. Present land use pattern of the study area shall be given based on satellite imagery.
3. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
4. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
5. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
6. Complete process flow diagram describing each unit, its processes and operations (mixing, grinding, milling, finishing, etc.), along with material balance.
7. Chemical name of each proposed product to be manufactured. Details on end use of each product.
8. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
9. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the SEZ for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
10. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
11. Qualitative and quantitative analysis of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
12. Segregation of waste streams and details on specific treatment and disposal of each stream.
13. Action plan for 'Zero' discharge of effluent shall be included.
14. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
15. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required

for the process etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.

16. Technical details of ATFD, RO/NF system.
17. Undertaking stating that a separate electric meter will be provided for the ETP, RO & MEE.
18. Economical and technical viability of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
19. Certification of adequacy of proposed ZLD scheme through credible institutes of National repute.
20. To estimate & monitor ground water quality & its contamination status, piezometer wells, one one on up gradient of the groundwater flow and other three on the down gradient side of the ground water flow of the proposed project at different depth based on available ground water depth shall be established and all the parameters mentioned in IS 10:500 for potable water standard shall be monitored.
21. Proposal to provide and maintain separate electric meter, operational logbook for effluent treatment systems, online meters for monitoring of flow, pH, TOC/COD, etc.
22. Application wise break-up of effluent quantity to be recycled / reused in various applications like sprinkling for dust control and green belt development etc. In case of land application, details on availability of sufficient open land for utilizing effluent for plantation / gardening. How it will be ensured that treated effluent won't flow outside the premises linked with storm water during high rainy days.
23. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
24. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
25. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 10 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
26. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one

- monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
27. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite Image / geographical area map.
 28. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
 29. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
 30. Action plan for odour control to be submitted.
 31. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
 32. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
 33. Complete management plan for By-products/Spent acids to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/Spent acids from the proposed project.
 34. Technical details including capacity, methodology, schematic diagram etc. of the Acid concentration plant. Also submit the documents from supplier of the technology. Name of the industries which are using this technology.
 35. Explore the possibility to reuse concentrated spent sulphuric acid within premises to convert it into valuable products instead of sending out side.

36. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
37. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
38. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
39. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
40. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
41. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
42. MSDS of all the products and raw materials.
43. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
44. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
45. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG

Sets, fire pumps, jockey pump, toxic gas detectors etc.

46. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
47. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
48. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
49. Copy of Environmental clearance obtained by SEZ-Sterling and its compliance status.
50. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
51. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
52. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
53. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
54. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
55. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for Synthetic Organic Chemical industry shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

Validity of ToR:

- The ToRs prescribed for the project will be valid for a period of three years for submission of EIA & EMP report accordingly, ToR will lapse after 28/06/2019.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of

valid period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

| | | | |
|----|---|---|-----------|
| 25 | Gailee Speciality Ingredients Pvt. Ltd. | 3373/A, Phase IV, GIDC Estate, Chhhtral, Dist.: Gandhinagar | Appraisal |
|----|---|---|-----------|

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Gailee Speciality Ingredients Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their online proposal no....
- This project was considered in the meeting of the SEAC held on 17/11/2015.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential, the details presented during the meeting and location in GIDC, after detailed deliberation, the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information vide their online proposal no. SIA/GJ/IND2/52900/2016 dated 01/06/2016

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic organic chemicals as below:

| Sr. no. | Name of Products | Quantity Kg/Month |
|------------|---|-------------------|
| 1 | Methoxsalen (API) | 200 |
| 2 | PLGA (Polymer) | 500 |
| 3 | 5-Methyl Nicotinic Acid (Rupatidine Intermediate) | 300 |
| 4 | Ciproflaxacin Lactate (API) | 500 |
| 5 | Ciproflaxacin Base (API) | 500 |
| Total | | 2000 |
| By-Product | | |
| 6 | Manganese Dioxide (By product form 5-Methyl Nicotinic acid) | 275 |

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 2250 sq. m & unit has proposed 700 sq. m area for the green belt development/Tree plantation. Land is taken on Lease from Krushna Oil Mill. Lease agreement is submitted. Expected project cost is Rs. 1.18 Crores. Total water requirement for the project will be 6.515 KL/Day. Unit has proposed to reuse 0.2 KL of water from scrubbing system. Hence, fresh water requirement will be 6.315 KL/day and it will be met through GIDC water supply. Industrial waste water generation will be 1.235 KL/day (Process – 0.085 KL, Boiler – 0.1 KL, Cooling – 0.05 KL, Washing – 1 KL). Scrubbing waste water (0.2 KL/day) will be reused in process. Remaining Industrial waste water (1.235 KL/day) will be sent to ETP [Cap.:1.5 KL/day] comprises of primary treatment plant followed by Evaporator [Cap. 250 Litre/hr] to achieve Zero Liquid discharge. Domestic waste water (0.7 KL/day) will be

disposed off into soak pit system. Unit has proposed electrically operated steam boiler (Cap. 0.1 TPH). Unit has proposed two stage scrubber system for control of Ammonia gas to be emitted from reaction vessel. Unit has proposed to reuse waste water generated from the scrubbing system. Process waste (5.35 MT/Month), ETP sludge & Evaporation residue (4 MT/Year) will be disposed off at the Common TSDF site. Discarded containers/Bags/Liners (24 MT/Year) will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil (10 Lit. /Year) will be sold only to the registered recyclers. Unit has obtained membership of Common Hazardous waste management facility of SEPPL.

Observations/Discussions:

Committee observed that this proposal was de-listed as per the SEAC MoM dated 25/05/2016 and meantime pp has applied online which was accepted by SEIAA and SEAC. PP requested to consider the case as they have applied online before 25/05/2016, which was considered by the SEAC. Technical presentation made during the meeting also covered the point wise reply of additional information sought. PP presented that waste water generated from the scrubbing system will be reused in process. On asking about the feasibility to reuse completely, PP could not reply satisfactorily. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.

1. Type of scrubbing media and quality of feasibility to reuse saturated scrubbing media considering characteristics of scrubbing media.
2. Management of Manganese Dioxide, Silica Recovery from Mfg. of Methoxsalen & its management as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
3. Mode of heat for drying operations. Technical details of Dryers with APCM.
4. Drying operation for Ciprofloxacin base
5. Complete details of solvent recovery system as per the point no. 22.

Following cases are also considered during meeting.

| | | | |
|-------------|--|---|--------------------|
| 1 & 2 | SIA/GJ/IND2/3570/2014 & SIA/GJ/IND2/3277/2014 | M/S. Deepak Nitrite limited M/S. Deepak Phenolics limited <i>Plot No. 12/B, GIDC Industrial Estate Dahej, Taluka Vagra, District Bharuch, Gujarat</i> | Refer Back Case |
|-------------|--|---|--------------------|

Project / Activity No.: 5(f)

1. M/s:Deepak Nitrite limited and M/S. Deepak Phenolics limited herein after Project Proponent – PP) applied for amendment in Environmental clearance project. EC is originally issued in the name of M/S Deepak Nitrite limited and applied for amendment for bifurcation of existing EC No. SEIAA/EC/5(f), 4(d), 1(d)/120/2014 dated 6th August 2014 into Deepak Nitrite Limited (DNL) and Deepak Phenolics Limited (DPL) on 13/01/2016
2. Proposal was considered for screening and scoping during SEAC meeting held on 23.03.2016 and additional information was sought. Project proponent submitted additional information on 07/05/2016. Proposal was considered in the SEAC meeting held on 18/06/2016. After detailed deliberation, committee unanimously recommended grant for amendment in EC for the aforesaid proposal to SEIAA vide letter No: EIA-10-2015-513-E-1412 dated 13/06/2016.

3. The proposal was considered in SEIAA meeting held on 18/06/2016 and it was referred back to SEAC by SEIAA to verify the existing provision for bifurcation of the Environment Clearance.
4. Project proponent submitted reply on 23/06/2016.
5. Reply was considered in the SEAC meeting held on 29/06/2016.
6. Committee noted that there is no mention in EIA Notification 2006 regarding bifurcation of EC. However, referring to the reply submitted by the PP, committee noted that PP has also submitted minutes of meeting of Expert Appraisal Committee (Infra-2) for projects related to common infrastructure dated 20th-21st January 2016 wherein recommendation regarding grant of EC for bifurcation of the proposal of Essar Bulk Terminal Salaya Limited (EBTSL) into EBSTL and Vadinar Liquid Terminals Limited (VLTL) for operation of various facilities is made.

Considering above, committee deliberated that as proposal is referred back to SEAC to verify existing provisions for bifurcation of the Environment Clearance and Expert Appraisal Committee (Infra-2) in case of Essar Bulk Terminal Salaya Limited (EBTSL) has recommended bifurcation of Environmental Clearance and CRZ clearance for various facilities to be operated which is in line with the bifurcation proposal of the M/S. Deepak Nitrite limited and hence unanimously decided to recommend grant of amendment in Environmental Clearance for aforementioned project to SEIAA.

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

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|----|---------------------------------------|--|
| 1. | Shri T. P. Singh, Chairman, SEAC. | |
| 2. | Shri V. C. Soni, Vice Chairman, SEAC. | |
| 3. | Shri R. J. Shah, Member, SEAC. | |
| 4. | Dr. V. K. Jain. Member, SEAC. | |
| 5. | Shri V.N. Patel, Member, SEAC. | |
| 6. | Shri Natrajan Pratap, Member, SEAC | |